B	ukti Korespondensi Author
A. PAPER 2:	<b>CORONARY HEART DISEASE USING SUPPORT</b>
	VECTOR MACHINE
	Penulis: OKFALISA, LESTARI HANDAYANI,
	DINDA JUWITA P, MUHAMMAD AFFANDES,
	S.S.M. FAUZI3, SAKTIOTO. (Penulis 1 dan
	Corresponding Author), Journal of Engineering
	Science and Technology, April 2021, Vol.16, Issue 2.
	Scopus (Q2) SJR: 0.24
-	a oleh pihak jurnal pada tanggal 3 April 2020,
-	w 1 pada 26 Juli 2020, Review ke 2 di 22 Agustus 2020,
-	accepted pada 17 Oktober 2020, dan full published pada
April 2021.	
Rukti Koresnonder	nsi dapat dilihat pada Gambar berikut dan lengkapnya
dapat dilihat pada	
	rima oleh pihak jurnal, tanggal 3 April 2020
6/26/2021	Gmail - Submission of a Manuscript (EE20099) / First Round of the Review Process
M Gmail	okfalisa saktioto <okfalisa@gmail.com></okfalisa@gmail.com>
Submission of 3 messages	a Manuscript (EE20099) / First Round of the Review Process
Jestec <jestec@taylo To: okfalisa saktioto &lt;</jestec@taylo 	
Dear Author	
Thank you for submit	ting your research paper to the Journal of Engineering Science and Technology (JESTEC)
Kindly note that we h	ave received the paper entitled
IDENTIFY THE CLASSI	FICATION OF DATASET CORONARY HEART DISEASE: SUPPORT VECTOR MACHINE (SVM) EMPLOYMENT
Your paper ID is EE20	099 (Please quote the above manuscript ID in all future correspondence with us.)
Soon we will initiate t	he first round of the review process.
	hat upon the full acceptance of your paper, publication fee in amount of USD300 must be paid before ed in the journal website.
Best regards	
JESTEC Editor	
http://jestec.taylors.	edu my

http://jestec.taylors.edu.my

M Gmail	okfalisa saktioto <okfalisa@gmail.com></okfalisa@gmail.com>
Paper ID EE20099 /Review of a paper, First Re 4 messages	ound Result/
Jestec <jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com></okfalisa@gmail.com></jestec@taylors.edu.my>	Sun, Jul 26, 2020 at 9:35 PM
Dear Author	
The first round of the review process has been completed.	
I am glad to advise that your paper has been <u>conditionally</u> accepted f	or publication with
No modification      Minor corrections      Major modification	ion.
Attached herewith, please find	
□1 □2 □3 ∅4 □5 □6 □7 □8 □9	reviewers' reports.
Please notice the following:	
<ol> <li>Address all the concerns/recommendations of the reviewers</li> <li>All amendments made are to be highlighted in red color in the</li> </ol>	a revised paper
3. Send an outlining following the instructions in the attached fil	
concern/recommendations. 4. In order to complete the review process on time, we highly ap	poreciate it if we can receive the revised paper within
three weeks from today.	
<ol> <li>Please take note that your revised manuscript may be rejected.</li> <li>In case that you will need more time to complete the revision</li> </ol>	
so we can get the approval from the Editorial Board.	, please indicate now much time you need via an email

	so we can get the approval from the Editorial Board.
	se note that the final acceptance of the paper depends on the final decision of the Review Panel and after the paper essfully passed all the review rounds.
Best	Regards
	'EC Editor
nup	://jestec.taylors.edu.my
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Paper ID EE20099 /Review of a paper	Submission After Correction
okfalisa saktioto <okfalisa@gmail.com> To: Jestec <jestec@taylors.edu.my></jestec@taylors.edu.my></okfalisa@gmail.com>	Sat, Aug 22, 2020 at 10:46 AM
Dear Jestec Editorial Team	
Here we attached our paper correction based on 4 re- the receipt of our proofreading.	viewers and 1 comment review (separate file). Also, we attached
Many thanks Best regards	
Okfalisa UIN Suska Riau Indonesia	
8 attachments	
Review Report - 1.docx	
Review Report - 3.docx	
Review Report - 2.docx	
Review Report - 1 commented revised2.docx 151K	
outlining of Review Report_Final.docx 528K	
Review Report - 4.docx     62K	
Manuscript, Okfalisa, JestecFinal.docx 166K	
Proof Read Okfalisa Jestec.pdf	
Contoh hasil correction sesuai deng	an commentar reviewer dapat dilihat pad

## Journal of Engineering Science and Technology (JESTEC)

## OUTLINING HOW THE ISSUES ARE ADDRESSED

## Title of paper:

- 1. Address all the concerns/recommendations of the reviewers.
- 2. All amendments made are to be highlighted in red color in the revised paper.

Final Recommendation		d without	Accepted with mi corrections	inor Accepted wit modifica					
Please tick									
Comments	Addressed (Y/N)		Repl	y/Action taken					
<ul> <li>Some tables can be combined in one table</li> </ul>	(17-1	Done (Combine Table 2-9) into Table 4 Table 4. Attribute Discretization							
Lable		Age discretizat	tion (1)	Systolic TD discretiza	tion (Sis) (9)				
		Age (years)	Discretization	Systolic BP (mmHg)	Discretization				
		25 < U <35	0	Sis<120	Optimal (0)				
		$35 \le U < 45$	0.2	120< Sis <130	Normal (0.2)				
		45 <u>&lt;</u> U <55	0.4	130< Sis <140	Normal Height (0.4)				
		55 <u>&lt;</u> U <65	0.6	140< Sis <150	Low hypertension (0.6)				
		65 <u>&lt;</u> U <75	0.8	150< Sis <160	Moderate hypertension (0.8)				
		$U \ge 85$	1	Sis >160	Severe hypertension (1)				
		Diastolic TD (I (10)	Dias) discretization	Discretization of LDL	(LDL) levels (11)				
		Diastolic BP (mmHg)	Discretization	LDL levels (mg / dL)	Discretization				
		Dias<80	Optimal (0)	LDL<100	Optimal (0)				
		80 <u>&lt;</u> Dias<85	Normal (0.2)	100< LDL <130	Approaching optimal (0.25)				
		85 <u>-</u> Dias<90	Normal Height (0.4)	130< LDL <160	Borderline high (0.5)				

				145 <20 Gl		l S	**	ate ension (0.8) hypertension
• Some tables can be converted to a figures to be more clear such as table 11, 12, and 13	and 5 It exp To in by co value proce paran	e 11, 12, and 13 has b is explained in more de plained in the text as for investigate the implication poparing the accuracy (s), the reduced (with sosting (KDD formatic sosting (KDD formatic neters for 10-fold cross urios dataset. The graph Table 6. The accurs	tails reg ollows. on of pr within o missing ed). Thi s-validat hical vie	e-process lataset ch values), s was es ion in Ta ws of per	the perform: sing against S hanges in the k-NN (with kecuted through the ble 6 and per- rformances ar	VM, the original distance agh the centage : re shown	e analy data ( calcul select split in i in Fig	rsis is conducted without missing lation), and pre- ion of the best . Table 7 for four gure 3, 4, and 5.
		Kernel	-	olvnomi		RBF		indiation.
		Parameters	c		Accuracy	C	d/σ	Accuracy
	(	Original Dataset	0	.03 1	100%	0.01	-	47.9%
	1	Reduced Dataset	0	.03 1	100%	0.01	1	48.1%
		k-NN Dataset	-	.03 1	100%	0.01	1	47.9%
		Pre-processing Datas	et O	.02 2	100%	0.8	1	98.9%
		Table 7. The accus	racy of t	the best p	parameter p	airs -pe	rcenta	ge split.
	I	Kernel	Polyne	mial	•	RBF		
	F	Parameters	DC	T (s)	Accuracy	DC	T(s)	Accuracy
	(	Original Dataset	70:30	27.49	100%	40:60	0.06	49.4%
	_	Reduced Dataset	70:30		100%			53.8%
	-	k-NN Dataset	80:20	24.55	100%	40:60	0.08	49.4%
		Pre-processing Dataset	70:30	0.06	100%	80:20	0.08	100%

Paper ID EE20099 /A progress of Review Proces 4 messages	ss/
Jestec <jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com></okfalisa@gmail.com></jestec@taylors.edu.my>	Sat, Aug 22, 2020 at 6:17 PM
Dear Author	
This email is to confirm that your paper is currently undergoing the	
$\Box$ 1 <sup>st</sup> $\boxtimes$ 2 <sup>nd</sup> $\Box$ 3 <sup>rd</sup> round of the review process.	
Thank you for your patience.	
Best regards	
JESTEC Editor	
http://jestec.taylors.edu.my	
okfalisa saktioto <okfalisa@gmail.com> To: Jestec <jestec@taylors.edu.my></jestec@taylors.edu.my></okfalisa@gmail.com>	Sat, Aug 22, 2020 at 6:25 PM
Thank you for your response	

Paper ID (EE20099) Review process is o	completed
2 messages Jestec <jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com></okfalisa@gmail.com></jestec@taylors.edu.my>	Sun, Oct 11, 2020 at 10:08 P
Dear Author	
I am glad to advise that your paper has been accepted more comments and they are satisfied with the revised	for publication without modification. The reviewers have no paper.
By this the review process is completed and we kindly ask ye for authors and JESTEC template (attached).	ou to check the format of the paper according to the instructions
Special attention to be paid for list of symbols used and the the references (attached are instructions) and explain each a http://jestec.taylors.edu.my/instructions.html	references. Please follow strictly the instructions for citation of symbol you used and its SI units. Also refer to this link:
You are also kindly required to fill in the JESTEC-Copy	right transfer form (use this link to download
http://jestec.taylors.edu.my/Copyright%20transfer%20v	er%20190818.doc and send to the journal.
Kindly note that you have only <u>four weeks</u> to submit the abo	ve.
Best Regards	
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http://jestec.taylors.edu.my	

Review process is completed paper (EE2009 payment/ 4 messages	99) /formatting, proofreading,
Jestec <jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com></okfalisa@gmail.com></jestec@taylors.edu.my>	Sat, Oct 17, 2020 at 10:42 At
Dear Author (6)	
Thank you for your email and sending your modified paper. We found that the	e paper still contains some formatting mistakes.
We would like to inform you that your paper has been scheduled to be publish	hed in April 2021, Volume 16 Issue 2
Attached please find the acceptance letter.	
Please send us up-to-date copyright transfer form. Download from here JES1	FEC-Copyright transfer form (CRTF)
Payment of the publication is needed before the paper is published online.	
Kindly refer to the attached sample of the involce and amend it (Red text only purpose of the payment. Once submitted we will send you an official involce to	
We thank you very much for your interest in JESTEC and looking forward for	new contribution.
Best regards	
Assoc. Prof. Dr. Abdulkareem Sh. Mahdi Al-Obaidi, CEng MiMechE	
Executive Editor, Journal of Engineering Science & Technology	
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2 attachments	
177 LoA_16_2_21 OKFALISA et al.pdf 56K	
20_177.docx 22K	

Paper 2 telah melampirkan bukti korespondensi pengusul dengan pihak editor jurnal.

## LAMPIRAN 2 BUKTI KORESPONDING AUTHOR

PAPER 2. CORONARY HEART DISEASE USING SUPPORT VECTOR MACHINE

Penulis: OKFALISA, LESTARI HANDAYANI, DINDA JUWITA P, MUHAMMAD AFFANDES, S.S.M. FAUZI3, SAKTIOTO. (Penulis 1 dan Corresponding Author), Journal of Engineering Science and Technology, April 2021, Vol.16, Issue 2. Scopus (Q2) SJR: 0.24



## Submission of a Manuscript (EE20099) / First Round of the Review Process

3 messages

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Fri, Apr 3, 2020 at 7:50 PM

Dear Author

Thank you for submitting your research paper to the Journal of Engineering Science and Technology (JESTEC)

Kindly note that we have received the paper entitled

#### IDENTIFY THE CLASSIFICATION OF DATASET CORONARY HEART DISEASE: SUPPORT VECTOR MACHINE (SVM) EMPLOYMENT

Your paper ID is EE20099 (Please quote the above manuscript ID in all future correspondence with us.)

Soon we will initiate the first round of the review process.

Please be reminded that upon the full acceptance of your paper, publication fee in amount of USD300 must be paid before the article is published in the journal website.

Best regards

#### JESTEC Editor

#### http://jestec.taylors.edu.my

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okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my> Fri, Apr 3, 2020 at 8:44 PM

Dear Editor,

Thank you very much for your information. Let me know when the paper will be published? I will make a payment soon after the paper is fully accepted. Please advise how the payment is made.

Best regards

Okfalisa

[Quoted text hidden]

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Fri, Apr 3, 2020 at 8:45 PM

Payment is due once the paper is accepted for publication

**Best Regards** 

JESTEC Editor

http://jestec.taylors.edu.my

[Quoted text hidden] [Quoted text hidden]



## Review Status of a paper (EE20099)

1 message

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Sun, Jun 7, 2020 at 8:29 PM

Dear Author

The review of your paper has been not completed yet. Up to this moment we do not have adequate numbers of review reports to share.

Thank you for your patience.

**Best Regards** 

#### **JESTEC Editor**

#### http://jestec.taylors.edu.my

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## Paper ID EE20099 /Review of a paper, First Round Result/

4 messages

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Sun, Jul 26, 2020 at 9:35 PM

Dear Author

The first round of the review process has been completed.

I am glad to advise that your paper has been conditionally accepted for publication with

 $\Box$  No modification  $\blacksquare$  Minor corrections  $\blacksquare$  Major modification.

Attached herewith, please find

□ 1	□2	□3	☑ 4	□ 5	□ 6	□ 7		reviewers' reports.
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Please notice the following:

- 1. Address all the concerns/recommendations of the reviewers
- 2. All amendments made are to be highlighted in red color in the revised paper.
- Send an outlining following the instructions in the attached file on how did you address each reviewers' concern/recommendations.
- 4. In order to complete the review process on time, we highly appreciate it if we can receive the revised paper within <u>three weeks</u> from today.
- 5. Please take note that your revised manuscript may be rejected if the corrections and the revision are not satisfactory.
- 6. <u>In case that you will need more time</u> to complete the revision, please indicate how much time you need via an email so we can get the approval from the Editorial Board.

## <u>Please note that the final acceptance of the paper depends on the final decision of the Review Panel and after the paper</u> <u>successfully passed all the review rounds.</u>

**Best Regards** 

JESTEC Editor

http://jestec.taylors.edu.my

6 attachments

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## Paper ID EE20099 /Review of a paper, First Round Result/

Jestec <jestec@taylors.edu.my></jestec@taylors.edu.my>	
To: okfalisa saktioto <okfalisa@gmail.com< td=""><td>12</td></okfalisa@gmail.com<>	12

Sun, Jul 26, 2020 at 9:35 PM

Dear Author

The first round of the review process has been completed.

I am glad to advise that your paper has been conditionally accepted for publication with

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Attached herewith, please find

□ 1	□ 2	□ 3	☑ 4	□ 5	□ 6	□ 7		reviewers' reports.
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- 3. Send an outlining following the instructions in the attached file on how did you address each reviewers' concern/recommendations.
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**Best Regards** 

JESTEC Editor

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6 attachments

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- Review Report 1 commented.docx 208K
- Review Report 1.docx 47K
- Review Report 2.docx
   40K
- Review Report 3.docx
   48K
- Review Report 4.docx 41K



## Paper ID EE20099 /Review of a paper, First Round Result/

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my> Mon, Jul 27, 2020 at 5:48 AM

Ok thank you.

I'll revise as requirements.

Thanks & Regards [Quoted text hidden]



## SUBMISSION OUR PAPER: "IDENTIFY THE CLASSIFICATION OF DATASET **CORONARY HEART DISEASE: SUPPORT VECTOR MACHINE (SVM) EMPLOYMENT "AUTHOR: OKFALISA**

1 message

okfalisa saktioto <okfalisa@gmail.com>

Fri, Mar 27, 2020 at 8:42 PM To: jestec@taylors.edu.my, toto saktioto <saktioto@yahoo.com>, lestari handayani <lestari.handayani@uin-suska.ac.id>

Dear Jestec Editorial Team,

Please find attached our article and supported documents to your journal. Thank you,

Regards,

Dr.Okfalisa Faculty Science and Technology Universitas Islam Negeri Sultan Syarif Kasim Riau Riau Indonesia

#### 5 attachments

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- CV Okfalisa 2020.pdf 219K
- PPR\_Okfalisa.xlsx **B**) 21K
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## Paper ID EE20099 /Review of a paper Submission After Correction

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <jestec@taylors.edu.my> Sat, Aug 22, 2020 at 10:46 AM

Dear Jestec Editorial Team

Here we attached our paper correction based on 4 reviewers and 1 comment review (separate file). Also, we attached the receipt of our proofreading.

Many thanks Best regards

Okfalisa UIN Suska Riau Indonesia

#### 8 attachments

- Provide the second seco
- Review Report 3.docx 57K
- Review Report 2.docx 59K
- Review Report 1 commented revised2.docx 151K
- entlining of Review Report\_Final.docx
- Review Report 4.docx 62K
- Manuscript, Okfalisa, JestecFinal.docx 166K
- Receipt Proof Read Okfalisa Jestec.pdf 458K



## Paper ID EE20099 /A progress of Review Process/

4 messages

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Sat, Aug 22, 2020 at 6:17 PM

**Dear Author** 

This email is to confirm that your paper is currently undergoing the

 $\Box$  1<sup>st</sup>  $\boxtimes$  2<sup>nd</sup>  $\Box$  3<sup>rd</sup> round of the review process.

Thank you for your patience.

Best regards

**JESTEC Editor** 

http://jestec.taylors.edu.my

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my>

Thank you for your response

[Quoted text hidden]

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my>

Dear editor

Thank you for your response

On Sat, Aug 22, 2020, 6:17 PM Jestec <Jestec@taylors.edu.my> wrote: [Quoted text hidden]

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my>

Dear editorial team.

Is there any progress regarding the correction of my manuscript? and when will the paper be published? Sat, Aug 22, 2020 at 6:25 PM

Sun, Aug 23, 2020 at 7:31 AM

Mon, Sep 28, 2020 at 7:53 AM

## 6/26/2021

Thank you

Best regards

## Okfalisa

[Quoted text hidden]



## Paper ID EE20099: Extended Revision

3 messages

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <jestec@taylors.edu.my> Mon, Aug 10, 2020 at 11:02 PM

Wed, Aug 12, 2020 at 10:51 PM

Dear Jestec Editorial Team,

As your email reply and notice in point <u>6</u>, please allow me to complete the revision by 25th of August 2020 since I have to do some more corrections both content and grammatical order in English.

I am looking forward to your prompt response. Thank you.

Best regards,

Okfalisa

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com>

We agree

**Best Regards** 

JESTEC Editor

http://jestec.taylors.edu.my

[Quoted text hidden]

okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my>

Many thanks prof.. [Quoted text hidden]

https://mail.google.com/mail/u/0?ik=0d8b2df5c0&view=pt&search=all&permthid=thread-a%3Ar-1249012629691430887&simpl=msg-a%3Ar82632... 1/1

Wed, Aug 12, 2020 at 11:52 PM



## Paper ID (EE20099) Review process is completed

2 messages

**Jestec** <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Sun, Oct 11, 2020 at 10:08 PM

Dear Author

I am glad to advise that your paper has been accepted for publication without modification. The reviewers have no more comments and they are satisfied with the revised paper.

By this the review process is completed and we kindly ask you to check the format of the paper according to the instructions for authors and JESTEC template (attached).

Special attention to be paid for list of symbols used and the references. Please follow strictly the instructions for citation of the references (attached are instructions) and explain each symbol you used and its SI units. Also refer to this link: http://jestec.taylors.edu.my/instructions.html

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Kindly note that you have only *four weeks* to submit the above.

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okfalisa saktioto <okfalisa@gmail.com> To: Jestec <Jestec@taylors.edu.my>

Thank you, I will do that as soon as possible.

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Okfalisa [Quoted text hidden] Sun, Oct 11, 2020 at 10:14 PM



# Review process is completed paper (EE20099) /formatting, proofreading, payment/

4 messages

Jestec <Jestec@taylors.edu.my> To: okfalisa saktioto <okfalisa@gmail.com> Sat, Oct 17, 2020 at 10:42 AM

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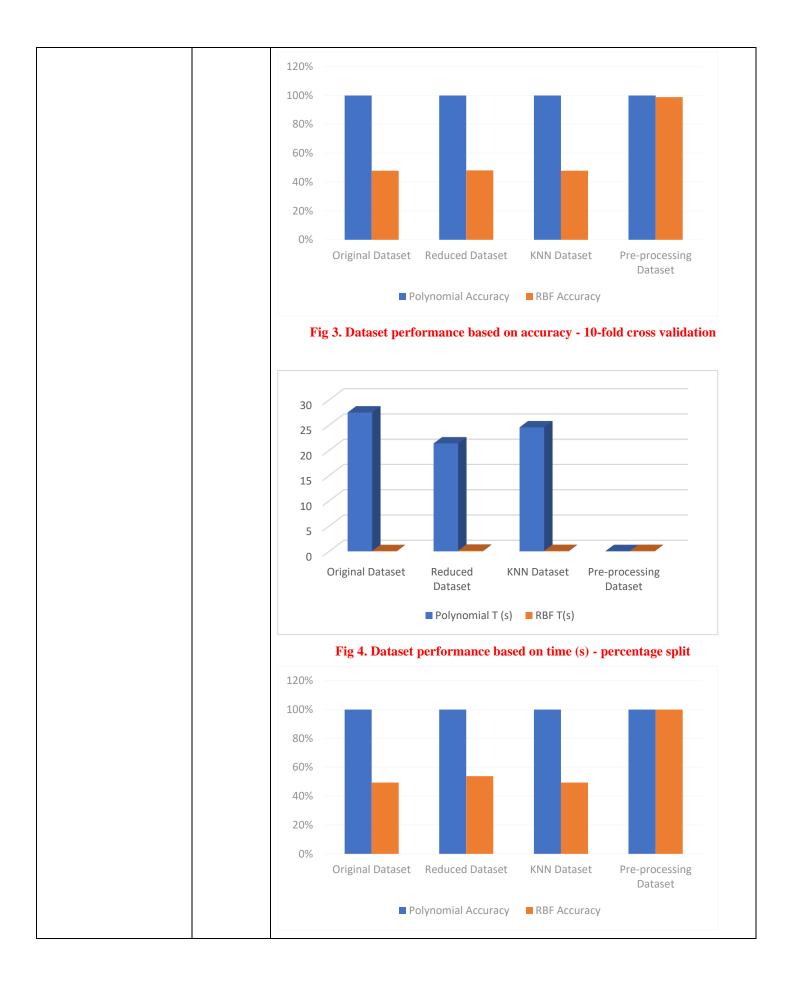
## OUTLINING HOW THE ISSUES ARE ADDRESSED

## Title of paper:

- 1. Address all the concerns/recommendations of the reviewers.
- 2. All amendments made are to be highlighted in red color in the revised paper.

Final Recommendation Please tick	modi	d without fication □	Accepted with mi corrections	nor Accepted wi modifica							
Comments	Addressed (Y/N)		Reply/Action taken								
• Some tables can be combined in one		Done (Combine Table 2-9) into Table 4 Table 4. Attribute Discretization									
table		A an disconsting		Systolic TD discretiza							
		Age discretiza	Discretization	•							
		Age (years)	0	Systolic BP (mmHg) Sis<120	Discretization						
		25 <u>&lt;</u> U <35	0.2	120< Sis <130	Optimal (0) Normal (0.2)						
		35 <u>&lt;</u> U <45 45 <u>&lt;</u> U <55	0.2	120< Sis <130 130< Sis <140	Normal Height (0.4)						
		$45 \le 0 < 55$ $55 \le U < 65$	0.6	130 < Sis < 140 140 < Sis < 150	Low hypertension						
		_			(0.6)						
		65 <u>&lt;</u> U <75	0.8	150< Sis <160	Moderate hypertension (0.8)						
		U ≥ 85	1	Sis >160	Severe hypertension (1)						
		Diastolic TD ( (10)	L (LDL) levels (11)								
		Diastolic BP (mmHg)	Discretization	LDL levels (mg / dL)	Discretization						
		Dias<80	Optimal (0)	LDL<100	Optimal (0)						
		80 <u>&lt;</u> Dias<85	Normal (0.2)	100< LDL <130	Approaching optimal (0.25)						
			85 <u>&lt;</u> Dias<90	Normal Height (0.4)	130< LDL <160	Borderline high (0.5)					
		90 <u>&lt;</u> Dias<100	Low hypertension (0.6)	160< LDL <190	High (0.75)						
		100 <u>&lt;</u> Dias<110		LDL >190	Very high (1)						
		Dias <u>≥</u> 110	Severe hypertension (1)								
		Discretization of HDL(HDL) (12) Discretization of total chole									
		HDL levels (mg / dL)	Discretization	CholDiscretizlevels (mg/ dL)							
		HDL<40	Low (0)	Chol <200	Desirable (expected to be safe) (0)						
		40 <u>&lt;</u> HDL <60	Normal (0.5)	200 <u>&lt;</u> Chol <240	Borderline (must be aware- begin to control) (0.5)						

		Chol ≥240	High (	1)
	HDL_>60 High (1) Triglyceride discretization		vel discretization (	
	Triglyceride Discretiza levels (mg / dL)		Levels Discre	
	trig <150 Normal (	)) Glu<40	Optima	al (0)
	$150 \le \text{trig} < 200 \qquad \text{Borderlin} \\ (0.33)$	/	1	
	<b>200≤ trig &lt;500</b> High (0.6	$6) \qquad 60 \le \operatorname{Glu} < 1$	25 Norma (0.4)	l Height
	trig_>500 Very Hig	h (1) 125 <u>&lt;</u> Glu <	145 Low hy (0.6)	ypertension
		<200		ension (0.8)
		Glu <u>&gt;</u> 200	Severe (1)	hypertension
be converted to a figures to be more clear such as table 11, 12, and 13	and 5 explained in more detail It explained in the text as follo To investigate the implication by comparing the accuracy w values), the reduced (with mi	ws. of pre-processing agai thin dataset changes in	inst SVM, the anal	(without missin
figures to be more clear such	It explained in the text as follo To investigate the implication	ws. of pre-processing again thin dataset changes in ssing values), k-NN (v This was executed alidation in Table 6 and al views of performance of the best parameter	inst SVM, the analysis in the original data with distance calcut through the select percentage split in ces are shown in Fi	(without missin ilation), and pro- tion of the be n Table 7 for for gure 3, 4, and 5
figures to be more clear such as table 11, 12,	It explained in the text as foldor To investigate the implication by comparing the accuracy we values), the reduced (with mi processing (KDD formatted) parameters for 10-fold cross-ve scenarios dataset. The graphic Table 6. The accuracy Kernel	ws. of pre-processing agai thin dataset changes in ssing values), k-NN (v This was executed alidation in Table 6 and al views of performance of the best parameter Polynomial	inst SVM, the analysis in the original data with distance calculation through the selected percentage split in the ces are shown in Firer - 10-fold cross v RBF	(without missir ilation), and pr tion of the be n Table 7 for for gure 3, 4, and 5 <b>alidation.</b>
figures to be more clear such as table 11, 12,	It explained in the text as follow To investigate the implication by comparing the accuracy we values), the reduced (with miny processing (KDD formatted) parameters for 10-fold cross-we scenarios dataset. The graphic Table 6. The accuracy	ws. of pre-processing again thin dataset changes in ssing values), k-NN (v This was executed alidation in Table 6 and al views of performance of the best parameter	inst SVM, the analysis in the original data with distance calculation through the selected percentage split in the selected set of the	(without missir ilation), and pr tion of the be n Table 7 for for gure 3, 4, and 5
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figures to be more clear such as table 11, 12,	It explained in the text as foldor To investigate the implication by comparing the accuracy we values), the reduced (with mini- processing (KDD formatted) parameters for 10-fold cross-ver- scenarios dataset. The graphic Table 6. The accuracy Kernel Parameters Original Dataset Reduced Dataset k-NN Dataset Pre-processing Dataset Table 7. The accuracy Kernel Parameters Driginal Dataset 7 Reduced Dataset 7 7 7 7 7 7 7 7 7 7 7 7 7	ws. of pre-processing again thin dataset changes in ssing values), k-NN ( $\infty$ . This was executed alidation in Table 6 and al views of performance of the best parameter Polynomial C d/ $\sigma$ Accur 0.03 1 100% 0.03 1 100% 0.03 1 100% 0.03 1 100% 0.02 2 100% y of the best parameter olynomial C T (s) Accura	inst SVM, the analysis in the original data with distance calculation through the selected percentage split in the selected percent	(without missin ilation), and priving tion of the been in Table 7 for for gure 3, 4, and 5 alidation. Accuracy 47.9% 48.1% 47.9% 98.9% Age split. Accuracy 49.4% 53.8%



Pre-processing           RBF           Prediction Class           STEMI         UAP         NSTEMI         STEMI           0         29         0         0         0         0         0         13         0         14         0         0         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         16
Prediction Class           STEMI         UAP         NSTEMI         STEMI           0         29         0         0           0         0         13         0
STEMI         UAP         NSTEMI         STEMI           0         29         0         0           0         0         13         0
0 29 0 0 0 0 13 0
0 0 13 0
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1
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V

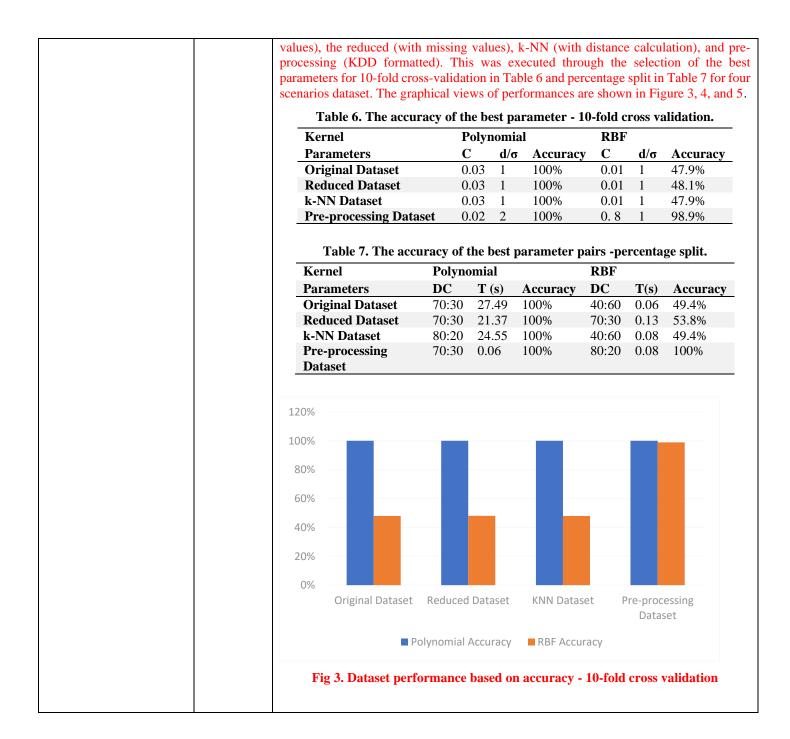
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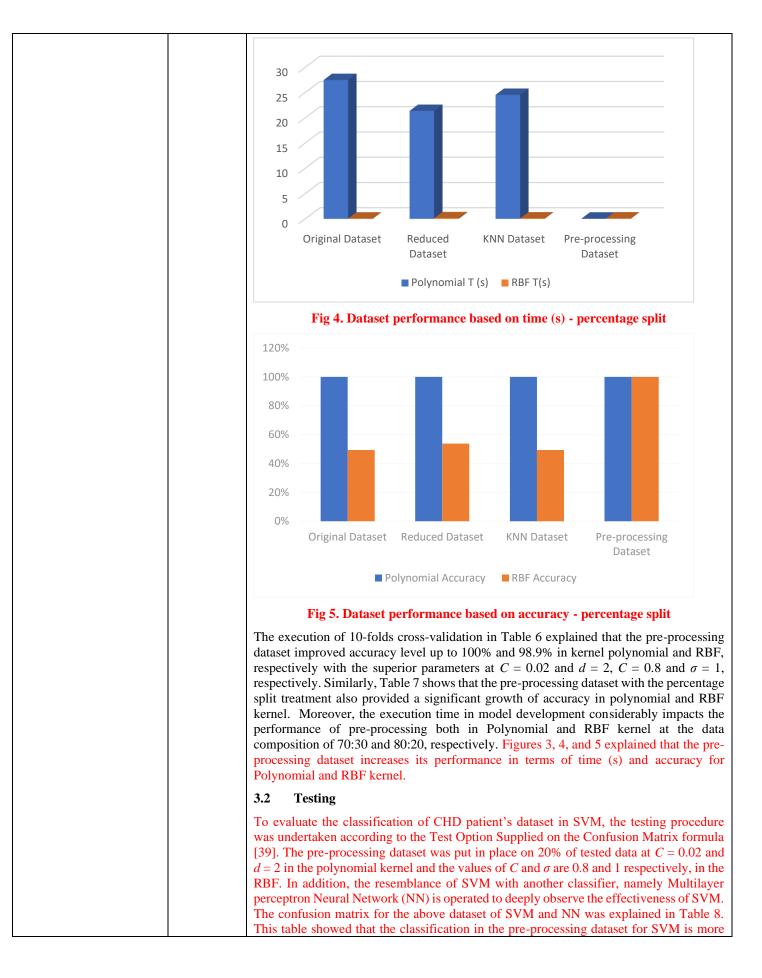
Reviewer # 2										
Final Recommendation Please tick		d without fication	Accepted with minor corrections	Accepted with major modification	Rejected					
Comments	Addressed (Y/N)		Reply/Action taken							
<ul> <li>How to select the value of C, d in polynomial kernel and c, σ for RBF.</li> </ul>	(1/N)	that allows to consideration impact the p constraint, th Meanwhile, t compared to surface. How an over-fit [3 closest memb	<i>d</i> is specified as the degree of to be trade off the influence of the a for varying <i>C</i> values between a erformance accuracy, while <i>C</i> erefore, a greater value of <i>C</i> im he values of $\sigma$ provide a good the distance between the class rever, a smaller $\sigma$ value compare 36]. A good choice for $\sigma$ will be pers of the two classes. Furtherm ining session was found at <i>C</i> a al kernel.	higher and lower-order terms 0.01 and 1. The selection value is selected based on the $C$ splies more penalty for classifi fit or an overfit to the data, where, it results in an overly flat ed to the distance between classes comparable to the distance between classes ore, the highest accuracy of particular terms of the distance of the distance between the distanc	and this is a es of <i>d</i> , and <i>o</i> function as a cation errors. hen $\sigma$ is large discriminant asses result in between the arameter pairs					
<ul> <li>How to measure the testing accuracy and what parameters used to measure the testing accuracy.</li> </ul>		and recall val [40] given by Accuracy = $\frac{T}{2}$	$\frac{P+TN}{P+N} \times 100\% $ (2) $\frac{FP+FN}{P+N} \times 100\% $ (3)							
		$ \begin{array}{l} FP \ (False \ Po \\ (no), \ Predicte \\ P \end{array} = Te   $	$\begin{aligned} & \text{itive} \\ & \text{itive} \\ & \text{ss (yes)}. \end{aligned}$ $\begin{aligned} & \text{gative} \\ & \text{ss (no)}. \end{aligned}$ $\begin{aligned} & \text{gative} \\ & \text{ergative} \end{aligned}$ $= \text{The amount of the d class (no)}. \end{aligned}$	correctly classified data ( <i>Actua</i> correctly classified data ( <i>Actua</i> incorrectly classified data ( <i>Act</i> incorrectly classified data ( <i>Act</i>	ul class (no), rual class					
Detailed     discussion is     needed for result		graphics, and We also adde	lained in more detail for the resul comparison analysis with othe d one section for discussion in earch Result and Discussion	er classifier, namely Neural Ne						

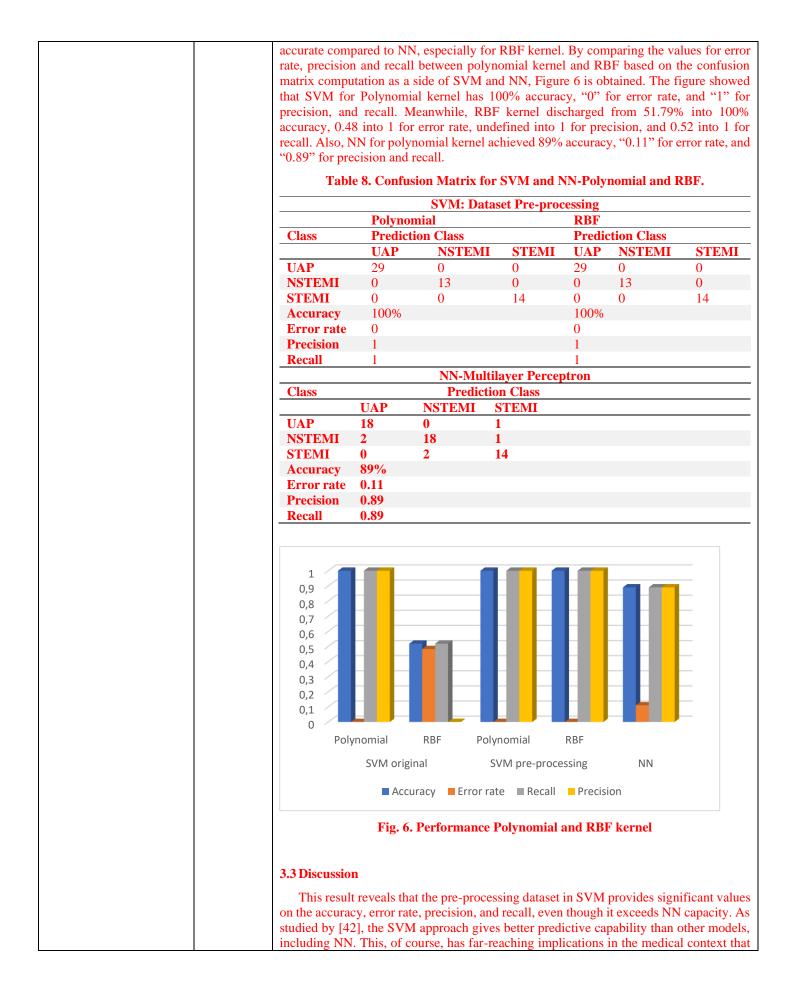
and Discussion	3.1	. Th	e Re	sult o	of K	DD a	anal	ysis											
part	3.1	.1. P	Pre-p	roces	ssing	g dat	ta ai	nalv	sis										
	<b>3.1.1. Pre-processing data analysis</b> The data were manually selected from the medical record of 280 CHD patients at Central																		
		Hospital by paying special attention to the feature related to attributes and missing value																	
	treatments. The diversity of data based on the feature is shown in Table 1 and missin value consideration in Fig. 1. Table 3 explains that the increasing numbers of trainin									missing									
																			rsity of
																			=2, and
																			, Figure oulating
																			missing
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													t nun					, ,	
		-																	
					Tab	le 3	. Da	ta D	liver	sitv	acc	ordi	ng to	The	Fea	ntur	e.		
													ition						_
		Fe	atur	е			40%		0			•	•••	80%	⁄0				
							Are	ea	Cla	asse	s			Are	a	Cla	sses		_
									1	2		3	•••			1	2	3	_
		Ag	ge (1)				37-	44	2	3		2	•••	25-3	31	0	1	0	
							45-		14				•••	32-3		2	1	3	
							52-		16	1			•••	38-4		1	3		
							59-		13	6			•••	44-4		19	1		
							66-		5	5			•••	50-5		32	22		
							73-		3	2			•••	56-6		20	10		
							80-	86	2	0			•••	62-6		15	8		
													•••	68-7 74-7		6 6	7 5		
													•••	80-8		4	0		
		Ge	ender	$\cdot$ (2)			Μ		36	2	3		•••	M		- 67	54		
				(_)			F		19	8				F		38	14		
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		Ca	ardia	c En	zym	es	Not	m	55	0		0	•••	Nor	m	105	5 0	0	
		(1'	7)																
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	27		F Yes		Yes	Yes	No	No	144	93	160.5		207	77	381	Yes	High	STEMI	
	28		M No	Yes	Yes	Yes	No	No	140	90	?	?	212	?	262	Yes	High	STEMI	
	31		M No	No	No	Yes	No	No	150	90	138.6		198	105	83	Yes	High	STEMI	
	69	68	M No	No	No	No	No	No	100	70	?	?	164	241	76	Yes	High	STEMI	
	71	54	M No	No	No	Yes	No	No	120	90	139.1	70	226	?	88	Yes	High	STEMI	
											_								
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	27	68	F Yes	No	Yes	Yes	No	No	144	93	160.5	31.1	207	77	381	Yes	High	STEMI	
	28		M No	Yes	Yes	Yes	No	No	140	90	93	57	212	84	262	Yes	High	STEMI	
	31		M No	No	No	Yes	No	No	150	90	138.6		198	105	83	Yes	High	STEMI	
	<b>69</b>		M No	No	No	No	No	No	100	70	90.3	20.1	164	241	76	Yes	High	STEMI	
	71	54	M No	No	No	Yes	No	No	120	90	139.1	70	226	140	88	Yes	High	STEMI	
						Fig	. 1. 1	Pre-	prod	essi	ing v	vith	miss	ing v	alue	e.			
						-9		-			9					-			

3.1.2. Transforma	ation data analysis								
the discretization	The medical records of CHD patients were collected in a variety of formats. Consequently, the discretization with the equal width approach was applied in expressing the standard range values from 0 to 1 as in Eq. (6).								
Series of ran	Series of range= <u>the highest area – the lowest area</u> The number of categories								
values of attribute attribute 10 for di attribute 13 for T glucose level. The two series and dis	1 for age discretiza iastolic blood pressu otal cholesterol, attr rest of the attribute cretized into 0 value value will be the fo	tion, attribute 9 for system ire, attribute 11 for LDL ibute 14 for Triglyceride s (2,3,4,5,6,7,8,16, and 1 e for "No" and 1 for "Ye	le 5. Table 4 defines the blic blood pressure (BP), 2, attribute 12 for HDL, e, and attribute 15 for a 7) were categorized into es" as shown in Table 5. e sample of format SVM						
	Table 4. At	tribute Discretization							
Age discretization	on (1)	Systolic TD discretizat	tion (Sis) (9)						
Age (years)	Discretization	Systolic ID discretizat	Discretization						
$\frac{\text{Age (years)}}{25 \le U < 35}$	0	Sis<120	Optimal (0)						
$35 \le 0 < 35$ $35 \le U < 45$	0.2	120< Sis <130	Normal (0.2)						
45 < U <55	0.4	130< Sis <140	Normal Height (0.4)						
$55 \le U < 65$	0.6	140< Sis <150	Low hypertension (0.6)						
65 <u>&lt;</u> U <75	0.8	150< Sis <160	Moderate hypertension (0.8)						
U ≥ 85	1	Sis >160	Severe hypertension (1)						
Diastolic TD (Di (10)	ias) discretization	Discretization of LDL	(LDL) levels (11)						
Diastolic BP (mmHg)	Discretization	LDL levels (mg / dL)	Discretization						
Dias<80	Optimal (0)	LDL<100	Optimal (0)						
80 <u>&lt;</u> Dias<85	Normal (0.2)	100< LDL <130	Approaching optimal (0.25)						
85 <u>&lt;</u> Dias<90	Normal Height (0.4)	130< LDL <160	Borderline high (0.5)						
90 <u>&lt;</u> Dias<100	Low hypertension (0.6)	160< LDL <190	High (0.75)						
100 <u>&lt;</u> Dias<110	Moderate hypertension	LDL >190	Very high (1)						
	(0.8)								
Dias <u>&gt;</u> 110									
	(0.8) Severe	Discretization of total	cholesterol (Chol)(13)						
	(0.8) Severe hypertension (1)	Discretization of total Chol Discretiza							
Discretization of HDL levels (mg / dL)	(0.8) Severe hypertension (1) f HDL(HDL) (12) Discretization	CholDiscretizalevels (mg/ dL)							
Discretization of HDL levels (mg / dL) HDL<40	(0.8) Severe hypertension (1) f HDL(HDL) (12) Discretization	CholDiscretizationlevels (mg// dL)/Chol <200/	Desirable (expected to be safe) (0)						
Discretization of HDL levels (mg / dL)	(0.8) Severe hypertension (1) f HDL(HDL) (12) Discretization	CholDiscretizalevels (mg/ dL)	ation Desirable (expected						
Discretization of HDL levels (mg / dL) HDL<40	(0.8) Severe hypertension (1) f HDL(HDL) (12) Discretization	CholDiscretizationlevels (mg// dL)/Chol <200	Desirable (expected to be safe) (0) Borderline (must be aware- begin to						

Triglyceride levels (mg / dL)	Discretization	Glucose (mg/dL)	Levels	Discretization	
trig <150	Normal (0)	Glu<40		Optimal (0)	
150 <u>&lt;</u> trig <200	Borderline high (0.33)	40 <u>&lt;</u> Glu	<60	Normal (0.2)	
200 <u>&lt;</u> trig <500	High (0.66)	60 <u>&lt;</u> Glu	<125	Normal Height (0.4)	
tri <u>g&gt;</u> 500	Very High (1)	125 <u>≤</u> Gl	u <145	Low hypertensio (0.6)	n
		145 <u>&lt;</u> <200	Glu	Moderate hypertension (0.3	8)
		Glu <u>&gt;</u> 20	00	Severe hypertens (1)	
	Table 5. Attributes	s with two s	series discret Discretizat		
	Gender (2)		Male	1	
	Genuer (2)		Female	0	
	Family History	(3)	None	0	
		(-)	Yes	1	
	Heart History (	(4)	None	0	
			Yes	1	
	DM History (5)	)	None	0	
	• • • •		Yes	1	
	Hypertension H	History (6)	None Yes	0 1	
	<b>Cholesterol His</b>	story (7)	None	0	
		• • • •	Yes	1	
	<b>Obesity (8)</b>		None	0	
	• • • •		Yes	1	
	Elevation (16)		None	0	
			Yes	1	
	Cardiac Enzym	nes (17)	None	0	
			Yes	1	
No 1 2 3		Attributes discretization	12 13 14	15 16 17 Cases	-
1 0,4 1 0	0 0 0 0 0 0,4	0,2 0	0 0 0 0	0,4 0 0 UAP	1
2 0,4 1 0 3 0,4 0 0	0 0 0 0 0 0,8	0,8 0	0 0 0 0	0,4 0 0 UAP 0,4 0 0 UAP	-
4 0,6 1 0 5 0,6 1 0		0,2 0,25 0,25	0,5 0 0 0	0,8 0 0 UAP 0,4 0 0 UAP	-
6 0.6 1 0	1 1 1 1 0 0,2	0,2 0,5	1 0,5 0 0	0.4 0 1 NSTEMI	
7 0,6 1 0 8 0,4 0 0	0 0 0 0 0 0,6	0,2 0 0,8 0,25	0 0 0,33 0	0,8 0 0 UAP 0,4 0 0 UAP	-
9 0.6 1 0	0 1 1 0 0 0,6	0,2 0,75	0 0,5 0 0	0,4 0 0 UAP	
10 0,4 0 0 11 0,2 1 0	1 1 1 0 0 0,4 1 1 1 0 0 0,2	0,2 0,25 0 0,25	0 0 0 0	0,4 0 0 UAP 0,4 0 0 UAP	1
12 0.6 1 0 13 0.4 0 0		0.8 0.25	0 0 0,33 0	0.4 0 0 UAP	-
14 0,4 1 0	1 1 1 0 0 0,6	0,6 0	0 0 0 0	0,4 0 0 UAP	1
15 0,4 1 0 16 0,4 0 0	1 1 1 0 0 0,6 0 1 1 0 0 0,6	0,8 0,5 0,8 0,25	0 0,5 0,66 0	0,4 0 0 UAP 0,8 0 1 NSTEMI	1
17 0,8 0 0	0 0 0 0 0 1	0,8 0,25	0 0,5 0 0	),8 1 1 STEMI	-
18 0,4 0 1 19 0,6 1 0	0 1 1 0 0 0.6	0,6 0	0 0 0 0	0.4 1 1 STEMI 0.4 1 1 STEMI	
20 0,4 1 0	1 1 1 0 0 0.4	0,8 0,5		0,4 1 1 STEMI	]
	Fig. 2. The	sample of	SVM input		
	in a cu clusia				
3.1.3. SVM min	ing analysis				
	ne implication of pre-	processing a	against SVM,	the analysis is con	nducte







	require increasing sensitivity, specificity (the ability to predict the absence of the condition when it is not present) as well as discriminatory power of the classifier as key features to consider when comparing classifiers and diagnostic methods [45]. In the reviews on kernel type, the simulation presented that SVM polynomial is more reliable on the dataset changes compare to RBF. Consequently, the pre-processing prescription on SVM-RBF will undoubtedly boost RBF performance. Furthermore, selecting the specific kernel is an important research issue for kernel-based learning in the data mining area and the problem of SVM kernels is found in fitting the appropriate parameter values [46]. This investigation revealed that the SVM polynomial kernel mediates the accuracy and efficiency of the diagnostic results based on the parameters defined in CHD.
• Why you are particularly select the SVM ? what are the features compared to other AI techniques.	SVM is a classification method that produces a fairly high degree of accuracy and is commonly used compared with the conventional decision tree, ANN [16, 17] and other classifiers [18]. Furthermore, Sivagami [19] compared SVM, Multilayer Perception (MLP), One R, and Decision Tree J48 methods in the classification of breast cancer. The results showed that SVM with kernel type RBF provided the highest accuracy rate of 95%, 91% in polynomial type, and 90% in linear type. One R exhibited 83%, 80% in J48 and 74.1% in MLP, which is the lowest performance. The comparison of SVM and Left Anterior Descending (LDA) for the classification of Coronary heart showed accuracy at 96.86% and 78.18% respectively [20]. Furthermore, Mo and Xu [21] attempted to improve the performance of SVM based on the hybrid kernel function using the optimization of the Particle Swarm Optimization (PSO) algorithm in heart disease diagnosis. Meanwhile, the accuracy of SVM in the early diagnosis of a heart condition by modifying the kernel width using trial and error approach significantly increase by 18.2% [22]. This showed that the kernel function on SVM provides the opportunities in enhancing the accuracy. Unfortunately, some difficulties in choosing the SVM kernel function were encountered [23], as well as flexibility in dataset changing [24], selecting optimal features, and time-consumption [25].
• Why the % split are different? 70:30, 80:20.	<ul> <li>A common strategy is to take all available labeled data, and split it into training and evaluation subsets, usually with a ratio of 70-80 percent for training and 20-30 percent for evaluation [39]. To make a deep investigation, we use several percentage splits as comparison, namely 40:60, 50:50, 60:40, 70:30, 80:20.</li> <li>Explanation in the paper: Also, the 10-folds validation and confusion matrix with percentage splits on the portion of training data compare to test data in 40:60, 50:50, 60:40, 70:30, and 80:20 is applied to support the assessment process. However, there are no specific rules in the distribution of training-data and test-data, therefore, a large number of the former will represent the diversity of the data [39].</li> <li>39. Kemal Polat, Bayram Akdemir, Salih Gunes. (2008). Computer aided diagnosis of ECG data on the least square support vector machine. <i>Digital Signal Processing</i>, 18(1), 25-32.</li> </ul>
• How to select the input parameters? Any analysis is doing for selection of input parameters.	In selecting data that limits the patient's age beyond 25 years, 17 attributes were exploited and they were defined based on the reviews of previous researches [27-33] as presented in Table 1. Table 1. Numbers of Attributes Code Attributes 1 Age 2 gender 3 family history 4 heart history 5 history of diabetes mellitus 6 history of hypertension 7 history of cholesterol 8 obesity

	9 systolic blood pressure
	<b>10</b> diastolic blood pressure
	11 LDL levels
	12 HDL levels
	13 total cholesterol levels
	14 triglyceride levels
	15 blood levels glucose
	16 elevation
	17 cardiac enzymes
	<ul> <li>27. Dirjen Bina Kefarmasian dan AlKes DepKes RI. (2006). Pharmaceutical Care Untuk Pasien Penyakit jantung Koroner : Fokus Sindrom Koroner Akut. Jakarta: Departmen Kesehatan RI.</li> </ul>
	28. Magesh, G.; and Swarnalatha, P. (2020). Optimal feature selection through a cluster-based DT learning (CDTL) in heart disease prediction. Evolutionary Intelligence. Special Issue, 1-11.
	29. Arad, Y.; Goodman, K.J.; Roth, M.; Newstein, D.; and Guerci, A.D. (2005). Coronary calcification, coronary disease risk factors, c-reactive protein, and atherosclerotic cardiovascular disease events. Journal of the American College of Cardiology, 46(1), 158–165.
	30. Hand, D.; Mannila, H.; and Smyth, P. (2001). Principles of data mining, Massachusetts London: The MIT Press.
	31. Nauta, S. T.; Deckers, J.W.; Boon, R.M. Van Der; Akkerhuis, K.M.; and Domburg, R.T. Van. (2014). Risk factors for coronary heart disease and survival after myocardial infarction. European Journal of Prevetive Cardiology, 21(5), 576–583.
	32. Mannsverk, J.; Wilsgaard, T.; Mathiesen, E.B.; Løchen, M.; Rasmussen, K.; Thelle, D.S.; and Bonna, K.H. (2015). Trends in modifiable risk factors are associated with declining incidence of hospitalized and nonhospitalized acute coronary heart disease in a population. Circulation, 133(1),74–81.
	33. Sharma, P.; Choudhary, K.; Gupta, K.; Chawla, R.; Gupta, D.; and Sharma, A. (2019). Artificial plant optimization algorithm to detect heart rate and presence of heart disease using machine learning. Artificial Intelligence in Medicine, 102, 101752.
What is the	Following the employment of SVM in KDD [34].
necessity of	Step 1: Pre-processing
preprocessing	
	This step is to reduce data, therefore there is no missing value. The activity begins with
and what method	data selection from CHD and then performed as an effort to feature subset selection by
used for the	ignoring the irrelevant attributes CHD risk factors and missing values. In view of this, k-
preprocessing?	NN with the Euclidian distance calculation is performed in Eq. (1)
	$dist = \sqrt{\sum_{k=1}^{n} (pk - qk)^2} \tag{1}$
	where <i>n</i> is number of attributes, $pk$ and $qk$ values are the <i>-k</i> attribute.
	34. Ivezic, Z. (2011). Data Mining and Machine Learning in Astronomy: A Practical Guide. Princeton: Princeton University Press.

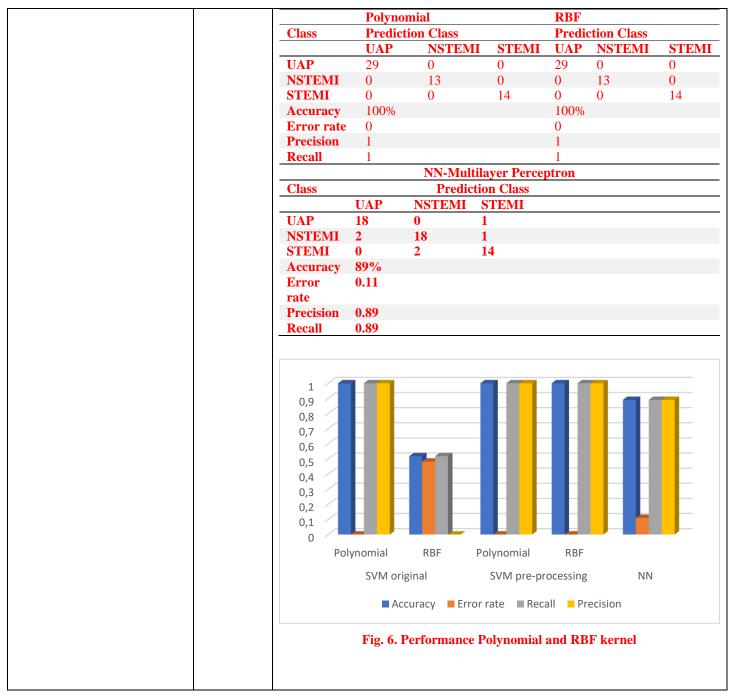
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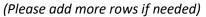
Reviewer # 3

Final	Accepted without	Accepted with minor	Accepted with major	Rejected
Recommendation	modification	corrections	modification	
Please tick				

Comments	Addressed (Y/N)	Reply/Action taken
<ul> <li>For preprocessing what algorithm is employed or a clear explanation about preprocessing is required</li> </ul>		Following the employment of SVM in KDD [34]. Step 1: Pre-processing This step is to reduce data, therefore there is no missing value. The activity begins with data selection from CHD and then performed as an effort to feature subset selection by ignoring the irrelevant attributes CHD risk factors and missing values. In view of this, k-NN with the Euclidian distance calculation is performed in Eq. (1) $dist = \sqrt{\sum_{k=1}^{n} (pk - qk)^2}$ (1) where <i>n</i> is number of attributes, <i>pk</i> and <i>qk</i> values are the - <i>k</i> attribute. 34. Ivezic, Z. (2011). Data Mining and Machine Learning in Astronomy: A Description of the prime prime term being right of the prime term.
<ul> <li>Explanation about KNN data set is required.</li> </ul>		Practical Guide. Princeton: Princeton University Press. Also, Figure 1 describes the transformation of pre-processing activity before and after manipulating the missing values by referring to k-NN distance calculation in Eq. (1). The missing values in the dataset at number 28 column 11, 12, and 14 is replaced by 93, 57, and 84 respectively as well as the missing values at dataset number 69, and 71. Eq. (1) $dist = \sqrt{\sum_{k=1}^{n} (pk - qk)^2}$ (1) where <i>n</i> is number of attributes, <i>pk</i> and <i>qk</i> values are the - <i>k</i> attribute. $\frac{12}{268} \frac{15}{8} \frac{15}{8} \frac{6}{8} \frac{7}{8} \frac{8}{9} \frac{10}{11} \frac{11}{12} \frac{13}{14} \frac{15}{16} \frac{16}{17} \frac{17}{282} \frac{16}{28} \frac{17}{282} \frac{168}{284} \frac{17}{154} \frac{15}{8} \frac{16}{17} \frac{17}{286} \frac{18}{8} \frac{19}{10} \frac{11}{12} \frac{13}{12} \frac{14}{15} \frac{15}{16} \frac{17}{17} \frac{15}{28} \frac{16}{10} \frac{17}{154} \frac{15}{16} \frac{17}{15} \frac{16}{17} \frac{17}{286} \frac{11}{12} \frac{13}{1207} \frac{14}{15} \frac{15}{16} \frac{17}{17} \frac{15}{286} \frac{17}{15} \frac{18}{10} \frac{11}{12} \frac{13}{12} \frac{14}{15} \frac{15}{16} \frac{17}{17} \frac{15}{28} \frac{11}{10} \frac{11}{12} \frac{13}{13} \frac{14}{15} \frac{15}{16} \frac{17}{17} \frac{15}{28} \frac{15}{10} \frac{11}{12} 1$
Grammar corrections		<b>Fig. 1. Pre-processing with missing value.</b> We have sent this paper to proof read. Here we attached the receipt
have to done		







Reviewer # 4					
Final Recommendation	Accepted modifi		Accepted with minor corrections	Accepted with major modification	Rejected
Please tick		]			
Comments	Addresse d (Y/N)		Reply/Act	tion taken	
Title: Should be deleted abbreviation		COR	ONARY HEART DISEAS	E USING SUPPORT VE	CTOR

· · · · ·	
SVM and my suggestion is your title should be "Coronary Heart Disease using Support Vector Machine" or if you use other classifier you can mention it.	
Abstract: Need	Abstract
to explain problem background, why you are interested in making research, what is your motivation.	The preference of SVM kernel function with optimal features that flexibly applied for dynamic dataset is a new challenge. The restriction of technology and infrastructure support for diagnosing the bioinformatics at rural area is a major concern for developing countries towards excellent health services. Therefore, this study aimed at evaluating the utilization of Support Vector Machine (SVM) in classifying patients of coronary heart disease with Unstable Angina Pectoris (UAP), Non-Segment (ST) Elevation Myocardial Infarction (NSTEMI) and ST-Elevation Myocardial Infarction (STEMI) classes. So far, 280 samples were experimented with 17 attributes by considering four types of dataset, which include the original, reduced, pre-processing and K-Nearest Neighbours (k-NN). To evaluate the optimal parameter pairs in terms of accuracy and processing time for the above dataset types, 10-folds cross-validation and percentage split were carried out on Polynomial and Radial Basis Function (RBF) kernels. Waikato Environment for Knowledge Analysis (WEKA) tool for 10-folds reveals the optimum accuracy of 100% for polynomial kernel test. Meanwhile, RBF Also, the percentage split of 70:30 affirms 100% accuracy with 0.06 seconds of processing time as the ideal values of Polynomial kernel test. Meanwhile, RBF exhibits 80:20 split for 100% accuracy with 0.08 seconds in dataset pre-processing. In a nutshell, SVM enhances the data precision and recall as well as minimizes the error possibility for the greatest classification of coronary heart disease patients in Polynomial and RBF kernel than other classifier such as Neural Network (NN). Therefore, the application of SVM improves the accuracy of coronary heart disease diagnostics.
	Keywords: Neural Network, K-Nearest Neighbours, Data Mining, Support Vector Machine, Coronary Heart Diseases.
<ul> <li>Keywords: Should be not more than five keywords.</li> </ul>	Neural Network, K-Nearest Neighbours, Data Mining, Support Vector Machine, Coronary Heart Diseases.
Introduction, Research	1. Introduction
Method, Results and Discussion: (1) In paragraph one, separate this paragraph become two paragraphs.	Data mining provides various manipulation services to achieve the prediction, classification, clustering, mapping, and anomalous detection of data. The utilization of this technique in various disciplines has evolved and shown a significant contribution to the field of knowledge, including medicine, finance, industry, technology, and even molecular biology as well as bioinformatics. With an emphasis on classification, the advent of methods in disaggregation data improves its usefulness and maneuverability in interpreting information, for examples Nijssen and Fromont [1] studied the optimal constraint of Decision tree method induction in pattern mining; Network and Tree-based methods were applied for data mining modeling in the corrosion of concrete sewer [2]; k-NN for scholarship recipient cases [3]; Multilayer Perceptron (MPL) for data mining in healthcare operations [4]; Naive Bayes approach in classifying the analysis of students' performance [5], Artificial Neural Network as a validation tool of Loud Haul Dump (LHD) machine performance characteristics [6], Neural Network in designating the water cycle problems [7] and the utilization of SVM in data mining [8].

	Recently, the enforcement of the above methods in analysing the complex bioinformatics data was put into practice. Big data opportunities bring unprecedented potential and challenges in data mining and biological analysis systems in a cost-efficient manner [9]. Also, big data technology ensures that the biologist generates large amount of facts and measurement of genomic sequences, images of physiological structures, measuring the messenger Ribonucleic Acid (mRNA) and protein expression, transcription factor binding, and metabolite concentration with limitation of programming skills [10]. In addition, Majhi et al [11] utilized bioinformatics techniques to identify the early stages of diseases such as metabolic and urea cycle disorders, inborn errors and path-aligners through genetics analysing processes and proteomics reports, which are therefore compared with health care data. Furthermore, Dashtban and Balfar [12] found the significance of data mining as artificial intelligent tools in classifying the microarray cancer data. The adoption of machine learning algorithms in bioinformatics accomplished the reduction of complex data and allocated the feature selection of biomarkers in raw data. Serra et al [13] verified the successful employment of machine learning techniques as well as clustering, classification, embedding techniques and network-based approaches in addressing bioinformatics problems which include gene expression clustering, patient classification, brain network analysis, and identification of biomarkers. In addition, this technology's ability to capture biomedical data has reformed machine learning into a sophisticated way to solve the complexities of big data. The number of heterogeneity modalities in biological and neurobiological phenomena insists on the multi-view of intelligent data integration from several resources. In addition, multi-view learning and data integration offers greater statistical power analysis [14]. In the process of improvising classification parameters, especially in pred
<ul> <li>(2)</li> <li>Need to use standard stages in your research.</li> <li>Step 1 is pre- processing.</li> <li>This step is to reduce data, so there is no missing value.</li> <li>Step 2 is Feature Extraction. This step is to produce seventeen</li> </ul>	Following the employment of SVM in KDD [34].Step 1: Pre-processingThis step is to reduce data, therefore there is no missing value. The activity begins with data selection from CHD and then performed as an effort to feature subset selection by ignoring the irrelevant attributes CHD risk factors and missing values. In view of this, k-NN with the Euclidian distance calculation is performed in Eq. (1) $dist = \sqrt{\sum_{k=1}^{n} (pk - qk)^2}$ (1)where n is number of attributes, pk and qk values are the -k attribute.Step 2: Transformation This step is to produce seventeen attributes and using k-NN and it is driven by discretizing the attributes with an equal width approach. The Equal width is one of the unsupervised discretizations of continuous features to obtain a better precision rate in dealing with data manipulation with high cardinality attributes [35] and its outputs become an input to the classification.Step 3: Classification using SVM Subsequently, the core process of data mining, which is the one-against-one SVM multiclass method is defined with a value of d, sigma o, and C as explained in Table 2.
attributes and using k-NN (formula Equation 1 is	d         sigma (o)         C           1         1         0.01           2         2         0.02

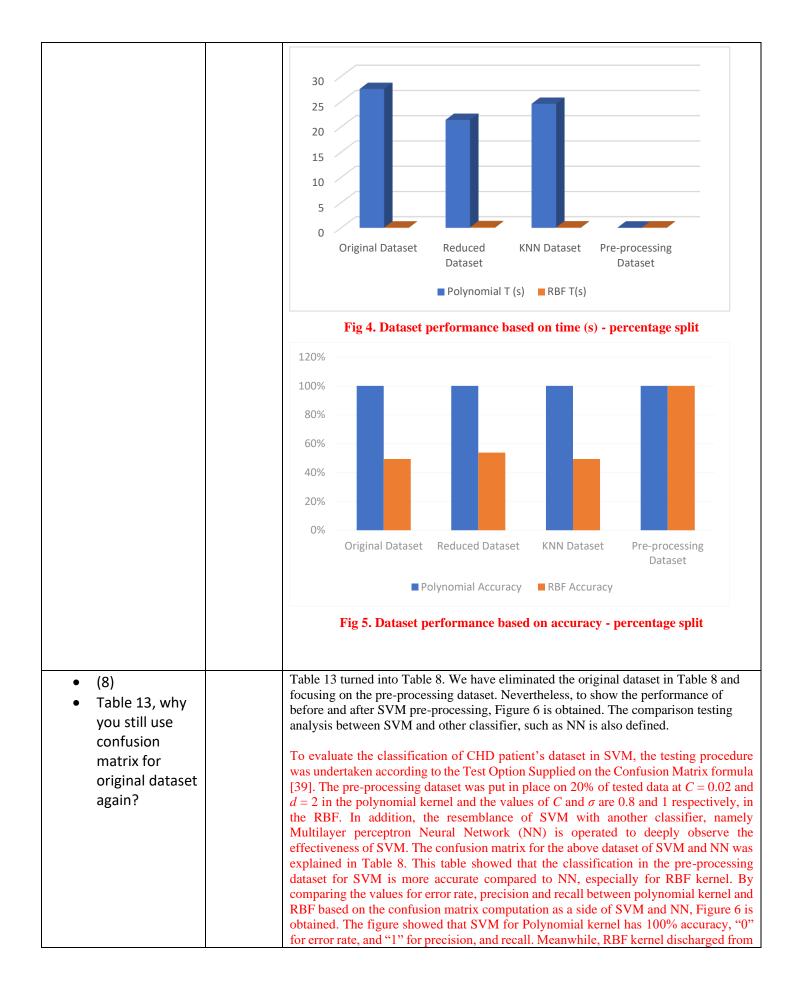
Euclidean	<b>3</b> 3 0.03	
Distance). Step	<b>4</b> 4 0.04	
3 is	<b>5</b> 5 0.05	
	0.06	
Classification.	0.07	
Outputs of the	0.08	
feature	0.09	
extraction	0.1	
	0.2	
become input	0.3 0.4	
to the	0.4	
classification.	0.5	
This step using	0.7	
Support Vector	0.6	
	0.9	
Machines	1	
(SVM) and two		
kernels uses	The variable $d$ is specified as the degree of the polynomial $d$ is specified as the degree of the polynomial $d$ is the degree of d is the degree of $d$ is the degree of $d$ is the degree of d is the degree of $d$ is the degree of d is the degree of $d$ is the degree of d is the degr	omial, the value of C is a constant
namely, Radial	that allows to trade off the influence of the higher an	nd lower-order terms and this is a
Basis Function	consideration for varying $C$ values between 0.01 and	1. The selection values of $d$ , and
	$\sigma$ impact the performance accuracy, while C is select	
(RBF) and	constraint, therefore, a greater value of C implies more	
Polynomial.	Meanwhile, the values of $\sigma$ provide a good fit or an $\sigma$	
Step 1 in your	compared to the distance between the classes, it resu	
article is called	surface. However, a smaller $\sigma$ value compared to the	
Pre-processing,	an over-fit [36]. A good choice for $\sigma$ will be compared alongest members of the two closests. Furthermore, the	
	closest members of the two classes. Furthermore, the	
Step 2 is called	pairs during the training session was found at <i>C</i> and <i>d</i> for the polynomial kernel. To process the data, W	
transformation	tool in data mining [37] and machine learning [38] w	
data and Step 3	tool in data mining [57] and machine rearming [50] w	as adopted.
is called testing	Step 4: Evaluation using SVM	
using SVM.	The evaluation process was carried out to ensure the	performance of the classification
	methods in the SVM with two kernel trick types on p	
	accuracy and time in the building model is thorou	ghly investigated to achieve the
	superlative one. Also, the 10-folds validation and c	
	splits on the portion of training data compare to test of	
	and 80:20 is applied to support the assessment proces	
	rules in the distribution of training-data and test-data	
	former will represent the diversity of the data [39]. Fu	
	procedure and the overcoming of various issues relat	
	the best C and parameter values, 10-folds validati	
	simulation took place in four stages, viz the original reduced (no missing values), the k-NN (with Euclid	
	Pre-processing (with KDD formation). Therefore, the	
	determination of accuracy, error rate, precision, and	
	on the confusion matrix as depicted in Eq. (2)-(5) [40	
	Accuracy = $\frac{\text{TP}+\text{TN}}{\text{P}+\text{N}} \times 100\%$	(2)
	Error-rate = $\frac{\text{FP+FN}}{\text{P+N}} \times 100\%$	(3)
	P+N	
	тр ТР	
	$Precision = \frac{TP}{TP+FP}$	(4)
	$\text{Recall} = \frac{\text{TP}}{\text{TP} + \text{FN}}$	(5)
	TP+FN	

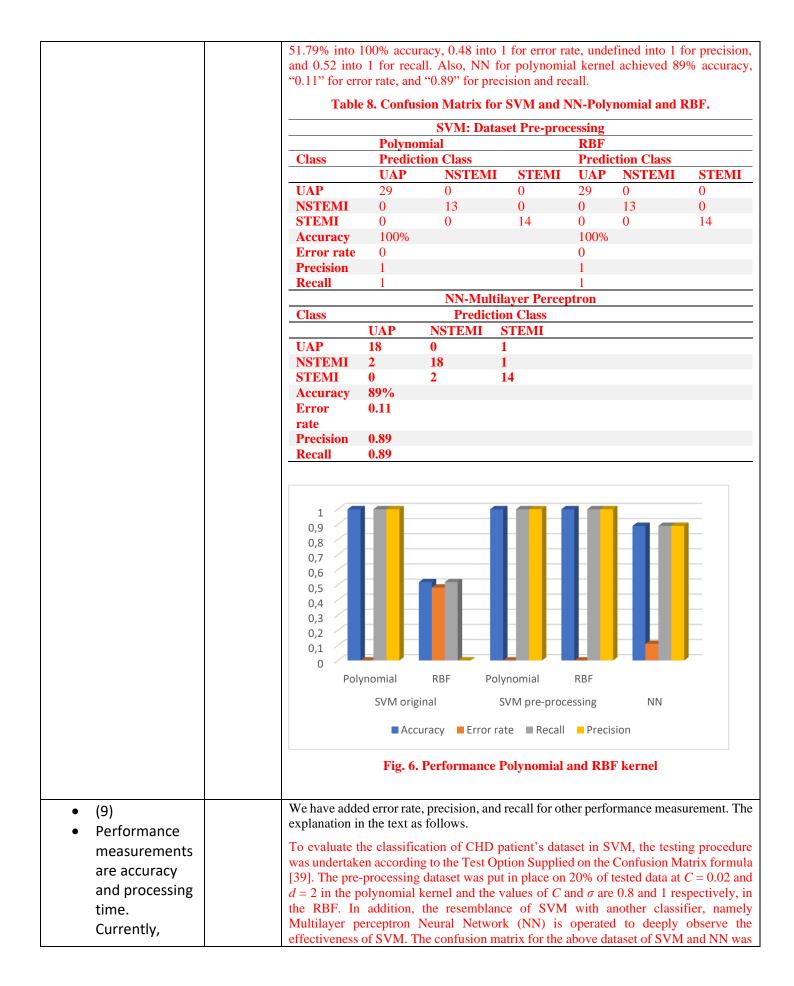
	TP (True Positive)= The amount of correctly classified data (Actual class (yes), Predicted class (yes)).TN (True Negative)= The amount of correctly classified data (Actual class (no), Predicted class (no)).FN (False Negative)= The amount of incorrectly classified data (Actual class (yes), Predicted class (no)).FP (False Negative)= The amount of incorrectly classified data (Actual class (yes), Predicted class (no)).FP (False Positive)= The amount of incorrectly classified data (Actual class (no), Predicted class (yes)).P= Total of TP and FN NN= Total of FP and TN
<ul> <li>(3)</li> <li>Organization of the paper need to explain at the end of paragraph in part of introduction.</li> </ul>	The organization of this study begins with an introduction that explains the background, previous reviews on the SVM method, the objectives, the research work, and implications. Furthermore, detailed data, instruments, and step processes are elucidated in the research method. The output of Knowledge Discovery and Data mining (KDD) and SVM analysis as well as and SVM evaluation are deliberated in the research result and discussion. Finally, the conclusion is given as a resume and suggestion is made for future studies.
<ul> <li>(4)</li> <li>Check format of citation, especially how to cite research papers. For example: [16 and 17] or [16- 17] or [16, 17]?</li> </ul>	For two citations: [16, 17], more than two citation [27-33]. Have been checked. SVM is a classification method that produces a fairly high <u>degree</u> of accuracy and is commonly used compared with the conventional decision tree, ANN [16, 17] To scrutinize the performance of SVM with other classifiers, the calculation of confusion matrix in NN Multilayer perceptron is measured by considering the values of accuracy, error rate, precision, and recall. This was adopted because research has steadily built on the accuracy and efficiency of data mining using NN and SVM for medical prediction and classification tasks [41, 42]. NN methods were <u>extensively</u> adopted in <u>classifying</u> problems and as one of the most active research and application areas. Furthermore, SVM and NN have been used with high accuracy in classification with relatively small sample data [43, 44].
<ul> <li>(5)</li> <li>Every equation, make the label of number and mention Equation 1, Equation 2 and etc.</li> </ul>	Have been done the correction. Its refers to Jestec format template.In view of this, k-NN with the Euclidian distance calculation is performed in Eq. (1)dist = $\sqrt{\sum_{k=1}^{n} (pk - qk)^2}$ (1)where n is number of attributes, $pk$ and $qk$ values are the -k attributeTherefore, the success rate of classification, the determination of accuracy, error rate, precision, and recall values are performed based on the confusion matrix as depicted in Eq. (2)-(5) [40] given by,Accuracy = $\frac{TP+TN}{P+N} \times 100\%$ (2)Error-rate = $\frac{FP+FN}{P+N} \times 100\%$ (3)Precision = $\frac{TP}{TP+FP}$ (4)
	$Recall = \frac{TP}{TP + FN} $ (5)

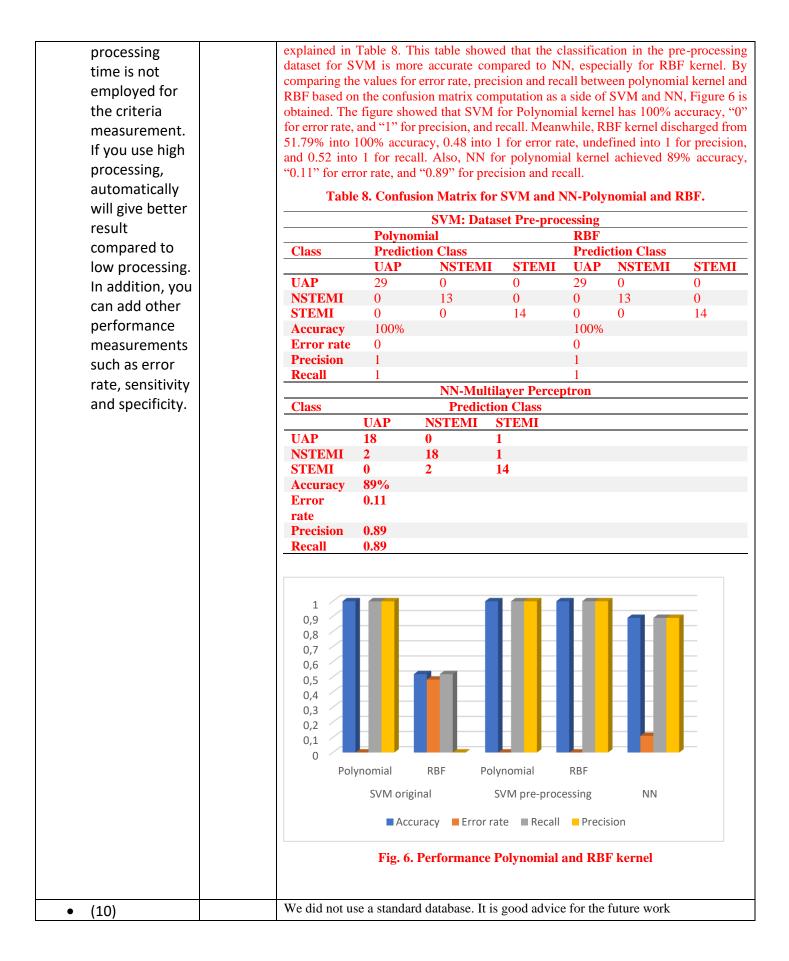
	Consequently, th	a discratization with t	the equal width approach	ves applied in avpressing
		ge values from 0 to 1		was applied in expressing
	Series of ra	ange= <u>the highest are</u>		(6)
		I ne numbe	er of categories	
• (6)			ients were collected in	
<ul> <li>Need to</li> </ul>			the equal width approach y	was applied in expressing
explain format	the standard rang	ge values from 0 to 1	as III Eq. (0).	
input of SVM.	Series of r	ange= <u>the highest are</u>	a the lowest area	(6)
input of Svivi.	Series of I		er of categories	(0)
		The number	er of categories	
	The discretization	on of attributes is dep	victed in Table 4 and Tab	le 5. Table 4 defines the
			ation, attribute 9 for syste	
			ure, attribute 11 for LDI	
	attribute 13 for	Total cholesterol, att	ribute 14 for Triglycerid	e, and attribute 15 for a
			es (2,3,4,5,6,7,8,16, and 1	
			e for "No" and 1 for "Ye	
			ormat for SVM input. Th	e sample of format SVM
	input is describe	d in Figure 2.		
		Table 4. At	ttribute Discretization	
	Age discretizat	tion (1)	Systolic TD discretiza	tion (Sis) (9)
	Age (years)	Discretization	Systolic BP (mmHg)	Discretization
	$25 \le U < 35$	0	Sis<120	Optimal (0)
	35 <u>&lt;</u> U <45	0.2	120< Sis <130	Normal (0.2)
	45 <u>&lt;</u> U <55	0.4	130< Sis <140	Normal Height (0.4)
	55 <u>≤</u> U <65	0.6	140< Sis <150	Low hypertension
		0.0	150 . 01 160	(0.6)
	65 <u>≤</u> U <75	0.8	150< Sis <160	Moderate
	TI > 95	1	Sis >160	hypertension (0.8)
	U ≥ 85	1	518 >100	Severe hypertension (1)
	Diastolic TD (I	Dias) discretization	Discretization of LDL	
	(10)	Jusy discretization	Disci cuzation of LDL	
	Diastolic BP (mmHg)	Discretization	LDL levels (mg / dL)	Discretization
	Dias<80	Optimal (0)	LDL<100	Optimal (0)
	80 <u>&lt;</u> Dias<85	Normal (0.2)	100< LDL <130	Approaching optimal
		()		(0.25)
	85 <u>&lt;</u> Dias<90	Normal Height	130< LDL <160	Borderline high (0.5)
		(0.4)		
	90 <u>&lt;</u> Dias<100	Low hypertension (0.6)	160< LDL <190	High (0.75)
	100 <u>&lt;</u> Dias<110	Moderate	LDL >190	Very high (1)
		hypertension (0.8)		
	Dias>110	(0.8) Severe		
	Dias <u>&gt;110</u>	hypertension (1)		
	Discretization	of HDL(HDL) (12)	Discretization of total	cholesterol (Chol)(13)
1	L'INCI CULAUIUIT			
	HDL levels	Discretization	Chol Discretiz	ation
	HDL levels (mg / dL)	Discretization	Chol Discretiz	ation
	HDL levels (mg / dL)	Discretization	Chol Discretiz levels (mg / dL)	ation

HDL<40	Low (0)	Chol <200	Desirable (expected
40 <u>≤</u> HDL <60	Normal (0.5)	200 <u>&lt;</u> Chol <240	to be safe) (0) Borderline (must be
			aware- begin to control) (0.5)
HDL <u>&gt;</u> 60	High (1)	Chol ≥240	High (1)
	scretization (14)	Glucose Level discre	
Triglyceride levels (mg / dL)	Discretization	Glucose Levels (mg/dL)	Discretization
trig <150	Normal (0)	Glu<40	Optimal (0)
150 <u>&lt;</u> trig <200	Borderline high (0.33)	40 <u>&lt;</u> Glu <60	Normal (0.2)
200 <u>&lt;</u> trig <500	High (0.66)	60 <u>≤</u> Glu <125	Normal Height (0.4)
tri <u>g &gt;</u> 500	Very High (1)	125 <u>&lt;</u> Glu <145	Low hypertension (0.6)
		145 <u>&lt;</u> Glu	Moderate
		<200	hypertension (0.8)
		Glu <u>&gt;</u> 200	Severe hypertension
			(1)
	Table 5. Attributes	with two series discre	tization
	Attributes	Discretiza	tion
	Gender (2)	Male	1
		Female	0
	Family History		0
	Heart History (	Yes4)None	0
	incurt inistory (	Yes	1
	DM History (5)		0
		Yes	1
	Hypertension H		0
	Cholesterol His	Yes tory (7) None	1 0
	Cholesterol fils	Yes	0
	<b>Obesity</b> (8)	None	0
		Yes	1
	Elevation (16)	None	0
	Cordice From	Yes	1
	Cardiac Enzym	None Yes	0
		Attributes discretization	
No 1 2 3 1 0,4 1 0	4 5 6 7 8 9 0 0 0 0 0 0,4	0,2 0 0 0 0	15         16         17         Cases           0,4         0         0         UAP
2 0,4 1 0 3 0,4 0 0	0 0 0 0 0 0 0,8 1 0 0 0 0 0,2	0,8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,4 0 0 UAP 0,4 0 0 UAP
4 0,6 1 0 5 0,6 1 0		0,2 0,25 0,5 0 0 0,2 0,25 0,5 0 0	0,8 0 0 UAP 0,4 0 0 UAP
6 0,6 1 0		0.2 0.5 1 0.5 0	0.4 0 1 NSTEME
7 0,6 1 0 8 0,4 0 0	0 0 0 0 0 0 0,6 1 0 0 0 0 0,6	0,2 0 0 0 0,33 0,8 0,25 1 0,5 0	0,4 0 0 UAP
9 0.6 1 0 10 0,4 0 0	0 1 1 0 0 0,6 1 1 1 0 0 0,4	0,2 0,75 0 0,5 0 0,2 0,25 0,5 0,5 0,66	
11 0,2 1 0 12 0,6 1 0	1 1 1 0 0 0,2 1 1 1 0 0 1	0 0,25 0 0 0 0.8 0.25 0 0 0.33	0,4 0 0 UAP 0,4 0 0 UAP
13 0,4 0 0 14 0,4 1 0	0 0 0 0 0 0 1 1 1 0 0 0,6	0 1 0 1 0 0,6 0 0 0 0	0,4 0 0 UAP 0,4 0 0 UAP
15 0.4 1 0	1 1 1 0 0 0,6	0.8 0.5 0 0.5 0.66	0.4 0 0 UAP
17 0,8 0 0	0 0 0 0 0 1	0,8 0,25 0 0,5 0	0,8 1 1 STEMI
18 0.4 0 1 19 0,6 1 0	0 1 1 0 0 0,6 0 0 0 0 0 0	0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,4 1 1 STEMI 0,4 1 1 STEMI
20 0.4 1 0	1 1 1 0 0 0,4	0.8 0.5 0 0 0	0,4 1 1 STEMI

		8	e sampl				
(7)	We have changed Table	11 to Table 6	6 and T	able 12 to Ta	able 7.		
In Table 11 and	Table 6. The accu	racy of the	best pa	rameter - 1	0-fold c	ross va	lidation.
Table 12, what	Kernel	Poly	ynomia	ıl	RBF		
is your	Parameters	С	d/σ	Accuracy	С	d/σ	Accuracy
justification to	<b>Original Dataset</b>	0.03	3 1	100%	0.01	1	47.9%
produce	<b>Reduced Dataset</b>	0.03	3 1	100%	0.01	1	48.1%
accuracy for	k-NN Dataset	0.03		100%	0.01	1	47.9%
al	Pre-processing Dat	<b>aset</b> 0.02	2 2	100%	0.8	1	98.9%
duce	Table 7. The ac	curacy of the	e best p	arameter p	airs -pe	rcenta	ge split.
<nn< td=""><td>Kernel</td><td>Polynom</td><td>nial</td><td></td><td>RBF</td><td></td><td></td></nn<>	Kernel	Polynom	nial		RBF		
' Is not	Parameters	DC 7	Г (s)	Accuracy	DC	T(s)	Accurac
ocused-on	<b>Original Dataset</b>		27.49	100%	40:60	0.06	49.4%
processing	<b>Reduced Dataset</b>			100%	70:30	0.13	53.8%
0	k-NN Dataset			100%	40:60	0.08	49.4%
mation	Pre-processing Dataset	70:30 0	).06	100%	80:20	0.08	100%
	These above tables are u SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	luation is con inal (without ance calculation pre-procession	nducted t missin ion), an ing pro	l by compari ng values), th nd pre-proces vided a sign	ng the a ne reductsing (K ificant g	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac
	SVM. Therefore, the eva changes in the data orig values), k-NN (with dist above tables reveal that SVM for polynomial and in Figure 3, 4, and 5.	Iluation is con inal (without ance calculati pre-processi 1 RBF kernel	nductec t missin ion), an ing pro I. The g	l by compari ng values), th nd pre-proces vided a sign	ng the a he reduction is reduction in the second se	ccurac ed data DD for growth	y within da a (with mis matted). T of accurac nces are sh







If you use     standard     databases, you     can compare	
<ul> <li>your result</li> <li>with other</li> <li>researchers</li> <li>and you can</li> <li>make the</li> <li>analysis. The</li> <li>output of</li> <li>results, is</li> <li>better use</li> <li>grant chart.</li> <li>(11)</li> <li>The</li> <li>contribution of</li> <li>paper is very</li> <li>low, because</li> <li>only using one</li> <li>classifier which</li> <li>is SVM. Use</li> <li>another</li> <li>classifier such</li> <li>as ATIficial</li> <li>Neural</li> <li>Network, Fuzzy</li> <li>Logic, Ant</li> <li>Colony</li> <li>Optimization</li> <li>and etc.</li> </ul> The scylaration in the text can be seen in Discussion and Conclusion. <b>3.1 Discussion</b> The scylaration in the text can be seen in Discussion and Conclusion. <b>3.2 Discussion</b> The scylaration in the text can be seen in Discussion and Conclusion. <b>3.3 Discussion</b> The scylaration in the text can be seen in Discussion and Conclusion. <b>3.4 Discussion</b> The scylaration in the text can be seen in Discussion and Conclusion. <b>3.5 Discussion</b> The scylaration in the text can be seen in Discussion and Conclusion. <b>3.5 Discussion</b> This study successfully employed the SVM provides significant versus on kernel type, the simulation presented that SVM polynomial is more reliable on the dataset charges compare to RBF. Consequently, the pre-processing dataset in Style provide: the classifier as key features to consider when comparing classifiers and diagonstic methods [45]. In the reviews on kernel type, the simulation presented that SVM polynomial is more reliable on the dataset charges compare to RBF. Consequently, the pre-processing prescription on SVM-RBF will undoubledly boost RBF performance. Turniformore, selecting the specific kernel is an important resent issue of nee-based learning in the data mining area and the problem of SVM kernel is forum in the total second has SVM polyn	standard databases, you can compare your result with other researchers and you can make the analysis. The output of results, is better use grant chart. (11) The contribution of paper is very low, because only using one classifier which is SVM. Use another classifier such as Artificial Neural Network, Fuzzy Logic, Ant Colony Optimization

	practically aids the doctors in suggestin This result methodically answered the which is flexible in changing the data	h minimal errors. Therefore, this classification g medical assistance and taking a curative action. difficulties in choosing the SVM kernel function, set, optimal functionality, and time-consumption integrating SVM with other methods is a new for future work.
• (12)	OK	
References: ok		

(Please add more rows if needed)

Reviewer # 5					
Final	Accepted without	Accepted	d with minor	Accepted with major	Rejected
Recommendation	modification	corrections		modification	
Please tick					
Comments		Addressed (Y/N)		Reply/Action taken	
•					
•					
•					
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(Please add more rows if needed)

Reviewer # 6					
Final Recommendation	Accepted without modification	Accepted with minor corrections		Accepted with major modification	Rejected
Please tick					
Comments			Addressed Reply/Action taker (Y/N)		n
•					
•					
•					
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(Please add more rows if needed)

Reviewer # 7					
Final Recommendation Please tick	Accepted without modification	Accepted with minor corrections		Accepted with major modification	Rejected
Comments			Addressed (Y/N)	Reply/Action take	en
•					
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•					
•					

Reviewer # 8					
Final Recommendation	Accepted without modification	Accepted with mino corrections		Accepted with major modification	Rejected
Please tick					
Comments			Addressed Reply/Action taken (Y/N)		n
•					
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(Please add more rows if needed)

Reviewer # 9					
Final Recommendation	Accepted without modification	Accepted with minor corrections		Accepted with major modification	Rejected
Please tick					
Comments			Addressed Reply/Action taken (Y/N)		n
•					
•					
•					
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(Please add more rows if needed)

Reviewer # 10					
Final Recommendation	Accepted without modification	-	d with minor rections	Accepted with major modification	Rejected
Please tick					
Comments			Addressed Reply/Action take (Y/N)		n
•					
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•					
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(Please add more rows if needed)