

## SRI BHARATHI

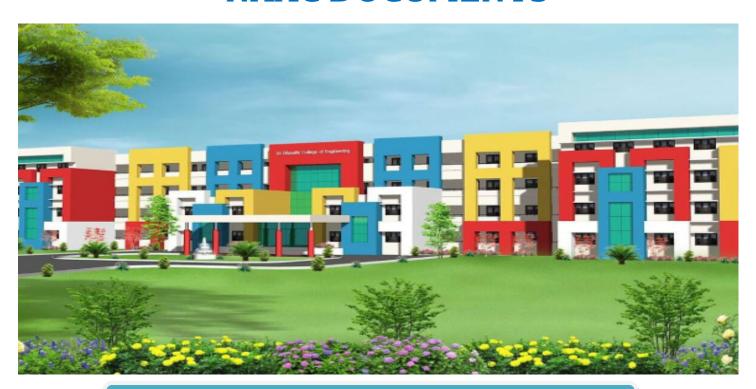
ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

## **NAAC DOCUMENTS**



Quality Indicator Frame Work

# Criterion – 1 CURRICULAR ASPECTS

Submitted by

IQAC
Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

## SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25 KAIKKURUCHI, PUDUKOTTAI – 622 303

#### **ACADEMIC YEAR 2021-2022/ ODD SEMESTER**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### 1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

#### **AND**

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	MACHINE LEARNING WITH PYTHON													
Resource Per	cson:		N N	urce Person Ir. K.Marimu Iaster Trainen ooboo Tech										
Date of cond	uct fr	om:	09.08.	2021	To:	13	13.08.2021 <b>Duration</b> : 30 Hours							
Organized D	epart	ment :	COM	PUTER AND	SCIENC	E E	NGINEERIN	G	li.					
Participant Year:  ODD No. of Students Registered: 7										71				
Venue: Au	Venue: Auditorium													

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Date: 03 / 08 /2021

#### **DEPARTMENT CIRCULAR**

A Value added course on "Machine Learning with Python" will be conducted by Rooboo Tech Software Development and Training Institute, Chennai in the college campus for all Second year, Third year and Final Year CSE students from 09/08/2021 to 13/08/2021. Certificates will be issued to eligible participants at the end of the course..

S.No.	Name of the Course	Resource Person
1.	Machine Learning with Python	Resource Person 1:  Mr. K.Marimuthu  Master Trainer  Rooboo Tech  Resource Person 2:  Ms.D.Janani  Master Trainer  Rooboo Tech

CC:

· Principal's office

IQAC Coordinator

Class In charges –II,III,IV year

CSE Students-II,III,IV year

Notice Board

Dr. S.THILAGAVATHI M.E., Ph.D.

PRINCIPAL SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN
Kaikkurchi - 822 303, Pudukkollai Dt.

HoD / CSI

HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

PUDUKKOTTAI - 622 303



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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **ACADEMIC YEAR 2021-2022 / ODD SEMESTER**

Value Added Course on "Machine Learning with Python"

#### **SYLLABUS**

	SILLADUS		
S.NO	TOPIC COVERED	DURATION (in hours)	DATE FN/AN
1	Introduction to Machine learning – Python for Machine Learning – Supervised Vs Unsupervised	3	09.08.2021
2	Introduction to Regression – Simple Linear Regression – Model Evaluation in Regression Models – Evaluation Metrics in Regression Models – Multiple Linear Regression	3	09.08.2021
3	Introduction to Classification – K-Nearest Neighbours – Evaluation Metrics in Classification – Introduction to Decision Trees- Building Decision Tres	3	10.08.2021
4	Introduction to Logistic Regression – Logistic Regression Vs Linear Regression – Logistic Regression Training	3	10.08.2021
5	Support Vector Machine - Kernel SVM - Classification Models Performance	3	11.08.2021
6	Simple Linear Regression - Multiple Linear Regression - Polynomial Regression - Support Vector Regression -	3	11.08.2021
7	Decision Tree Regression - Random Forest Regression - Regression Models Performance	3	12.08.2021
8	Introduction to clustering – Introduction to K- Means Algorithm - Hierarchical Clustering	3	12.08.2021
9	Natural Language Processing - Dimensionality Reduction - Principal Component Analysis -	3	13.08.2021
10	Linear Discriminate Analysis - Kernel PCA	3	13.08.2021
	Total Hours:	30	

VAC Coordinator

Dr. S.THILAGAVATIA M.E., Ph.D., PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkotiai Dt.

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACADEMIC YEAR 2021-2022 / ODD SEMESTER Value Added Course on "Machine Learning with Python"

## STUDENTS PARTICIPATION LIST-VAC PROGRAM

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912618104001	ABIRAMI S	IV / CSE
2	912618104002	AKILA P	IV / CSE
3	912618104003	BUVANESHWARI S	IV / CSE
4	912618104004	EVANJELIN S	IV / CSE
5	912618104005	FEFINA I	IV / CSE
6	912618104007	GOWSALYA A	IV / CSE
7	912618104011	JAYANTHINI T	IV / CSE
8	912618104012	KAVIYASELVI K	IV / CSE
9	912618104013	KOWSALYA S	IV / CSE
10	912618104014	LAKSHMI N	IV / CSE
11	912618104015	LAKSHMI PRABHA M	IV / CSE
12	912618104017	MALA S	IV / CSE
13	912618104018	MAMTHA G	IV / CSE
14	912618104019	NIRANJANADEVI C	IV / CSE
15	912618104020	NIVEDHA M	IV / CSE
16	912618104021	NIVETHA G	IV / CSE
17	912618104022	PRIYADHARSHINI R	IV / CSE
18	912618104023	PRIYAVATHANI A	IV / CSE
19	912618104024	PUVIYARASI S	IV / CSE

dr. **S.THILAGAVATHI** M.E.,Ph.D.,
PRINCIPAL

SRIBHARATHI ENGINEERING COLLEGE FOR WOM

Kaikkurchi - 622 303, Pudukkotte. Oti

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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kelthurds - 672 303 Pudukollal DL

20	912618104025	RASMI J	IV / CSE
21	912618104026	ROSLINA BEGUM R	IV / CSE
22	912618104027	SINDHU V	IV / CSE
23	912618104028	SIVASANGAVI A	IV / CSE
24	912618104029	SURUTHIKA S	IV / CSE
25	912618104031	SUSHMEENA K	IV / CSE
26	912619104001	ANNAPOORANI M	III / CSE
27	912619104003	ARUNNAVAMEENA A	III / CSE
28	912619104004	DAYANA P	III / CSE
29	912619104005	DHARSHINI D	III / CSE
30	912619104007	FAHMIDHA B	III / CSE
31	912619104009	GULNAS FATHIMA S	III / CSE
32	912619104010	HELAN J	III / CSE
33	912619104011	KEERTHANA R	III / CSE
34	912619104012	MUTHULAKSHMI G	III / CSE
35	912619104013	MUTHU MEENAKSHI M	III / CSE
36	912619104014	NIROSHIKA R	III / CSE
37	912619104017	PARAMESHWARI S	III / CSE
38	912619104019	RANJANI K	. III / CSE
39	912619104020	RILWANA PARVEEN J	III / CSE
40	912619104021	ROOPINA R	III / CSE
41	912619104022	SANDHIYA B	III / CSE
42	912619104023	SANTHI D	III / CSE
43	912619104024	SARANYA C	III / CSE
44	912619104027	SNEHA R	III / CSE
45	912619104029	SURIYA JOTHI S	III / CSE
46	912619104301	ABINAYA S	III / CSE

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

47       912619104501       ISWARYA C       III / CSE         48       912620104001       AKALYA S       II / CSE         49       912620104002       HEMA V       II / CSE         50       912620104003       ISWARYA R       II / CSE         51       912620104004       KALAIVANI S       II / CSE         52       912620104005       KALPANA K       II / CSE         53       912620104006       MAHALAKSHMI P       II / CSE         54       912620104007       MEIYYAMMAL M       II / CSE         55       912620104008       NANDHINI P       II / CSE         56       912620104009       PRASANNA DEVI P       II / CSE
49       912620104002       HEMA V       II / CSE         50       912620104003       ISWARYA R       II / CSE         51       912620104004       KALAIVANI S       II / CSE         52       912620104005       KALPANA K       II / CSE         53       912620104006       MAHALAKSHMI P       II / CSE         54       912620104007       MEIYYAMMAL M       II / CSE         55       912620104008       NANDHINI P       II / CSE
50       912620104003       ISWARYA R       II / CSE         51       912620104004       KALAIVANI S       II / CSE         52       912620104005       KALPANA K       II / CSE         53       912620104006       MAHALAKSHMI P       II / CSE         54       912620104007       MEIYYAMMAL M       II / CSE         55       912620104008       NANDHINI P       II / CSE
51       912620104004       KALAIVANI S       II / CSE         52       912620104005       KALPANA K       II / CSE         53       912620104006       MAHALAKSHMI P       II / CSE         54       912620104007       MEIYYAMMAL M       II / CSE         55       912620104008       NANDHINI P       II / CSE
52       912620104005       KALPANA K       II / CSE         53       912620104006       MAHALAKSHMI P       II / CSE         54       912620104007       MEIYYAMMAL M       II / CSE         55       912620104008       NANDHINI P       II / CSE
53         912620104006         MAHALAKSHMI P         II / CSE           54         912620104007         MEIYYAMMAL M         II / CSE           55         912620104008         NANDHINI P         II / CSE
54         912620104007         MEIYYAMMAL M         II / CSE           55         912620104008         NANDHINI P         II / CSE
55 912620104008 NANDHINI P II / CSE
56 012620104000 DDAGANDIA DEVI D II / CCE
56 912620104009 PRASANNA DEVI P II / CSE
57 912620104010 PRISHIYA E II / CSE
58 912620104012 ROSAMMAL M II / CSE
59 912620104013 ROSHIKA K II / CSE
60 912620104014 SABHA AYSHA S II / CSE
61 912620104015 SATHIYASRI P II / CSE
62 912620104016 SIVAGAMI D II / CSE
63 912620104017 SIVAHARINI S II / CSE
64 912620104018 SUBASHINI C II / CSE
65 912620104019 SUBASHINI M II / CSE
66 912620104020 SWETHA D II / CSE
67 912620104021 VANATHI T II / CSE
68 912620104022 VINCIYA MARY S II / CSE
69 912620104301 AARTHI P II / CSE
70 912620104303 JANANI B II / CSE
71 912620104304 VAISHNAVI R II / CSE

VAC Coordinator Dr. S.THILAGAVATHI M.E. Ph.D.,
PRINCIPAL S
SRIBHARATHI ENGINEERING

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### ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

s.no	REG.NO	NAME OF THE	YEAR/	DATE 09.08.21		DATE 10.08.21		DATE 11.08.21		DATE 12.08.21		DATE 13.08.21		NO OF SESSIONS	SIGNATURE OF THE
		STUDENT	BRANCH	FN	AN	ATTENDED	STUDENT								
1	912618104001	ABIRAMI S	IV / CSE	1	1	1	1	P	1.	0	_	1	,	10	1 Jami
2	912618104002	AKILA P	IV/CSE	1	1	7	1	1	1	(	1	1	1	10	Akilon
3	912618104003	BUVANESHWARI S	IV / CSE	1	1	1	1	1	1	-	1	Ţ	1	To	1.2
4	912618104004	EVANJELIN S	IV / CSE	1	1	(	1	1	1	,		/	f	(10	Byvanta
5	912618104005	FEFINA I	IV / CSE	ſ	1	1	1		1	(	1	(	1	10	Fetina
6	912618104007	GOWSALYA A	IV / CSE	1	1	(	1	1	1	1	1	T		10	ganhe
7	912618104011	JAYANTHINI T	IV / CSE	1	1	. ,	1	- 1	1	1	,	1	/	60	70
8	912618104012	KAVIYASELVI K	IV / CSE	1.	1	(	1	(	1	(	-	,	1	-	1. Jayand R.
9	912618104013	KOWSALYA S	IV / CSE	r	1	1	1	-	1	1	1		1	(10	1
10	912618104014	LAKSHMI N	IV / CSE	Ī	4	(	1	1	1	1	1	1	1	10	Howaly

Dr. S. THILAGAVATHI M.E., Ph.D., SRI BHARATHI ENGINEERING
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46 -	912619104381	ABINAYAS .	HIVCSE											100	
11	912618104015	LAKSHMI PRABHA M	IV / CSE	1	1	91	a	1	1	1	1	1	1	08	laprobly
12	912618104017	MALA S	IV / CSE	1	1	1	1	1	1	1	1	1	1	co	s.Malo
13	912618104018	мамтна G	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	G. Memth
14	912618104019	NIRANJANADEVI C	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Vicesjarado
15	912618104020	NIVEDHA M	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Dry
16	912618104021	NIVETHA G	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Nivertha.
17	912618104022	PRIYADHARSHINI R	IV / CSE	1	1	1	1	1	/	1	./	1	1	10	Psiyan
18	912618104023	PRIYAVATHANI A	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Principal
19	912618104024	PUVIYARASI S	IV / CSE	a	a	1	1	1	1	1	1	1	1	08	Puryent.
20	912618104025	RASMI J	IV / CSE	1	1	1	1	1	1	1	1	1	1	LO	Par
21	912618104026	ROSLINA BEGUM R	IV / CSE	1	1	1	1	1	1	1	1	1	1	LO	Roslig
22	912618104027	SINDHU V	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Sindle
23	912618104028	SIVASANGAVI A	IV / CSE	1	1	1	1	1	1	/	1	1	1	10	Singgon
24	912618104029	SURUTHIKA S	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Suk
25	912618104031	SUSHMEENA K	IV / CSE	1	1	1	1	1	1	1	1	1	1	10	Stuy.
26	912619104001	ANNAPOORANI M	III / CSE	1	1	1	1	1	1	1	1	1	1	to	M. Amasoopai
27	912619104003	ARUNNAVAMEENA A	III / CSE	1	1	1	1	1	1	1	1	,	1	to	M. Amasoopa
28	912619104004	DAYANA P	III-/CSE pr. S. THI	1	,	1	,/ E.,Ph.I	1	1	1	,	1	1	10	Dayoner

PRINCIPAL SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurch' - 822 303, Pudukkotla' Dt.

29	912619104005	DHARSHINI D	III / CSE	a	Q	1	1	1	1	1	1	1	1	08	Pharlini .
30	912619104007	FAHMIDHA B	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Pay
31	912619104009	GULNAS FATHIMA S	III / CSÉ	1	1	1	1	1	1	1	1	1	1	00	Owlnestant
32	912619104010	HELAN J	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Helan -
33	912619104011	KEERTHANA R	III / CSE	1	1	1	1	1	1	1	1	1	1	(0)	Maria
34	912619104012	MUTHULAKSHMI G	III / CSE	1	1	9	0_	1	1	1	1	1	1	08	Multip
35	912619104013	MUTHU MEENAKSHI M	III / CSE	1	1	1	1	1	1	1	1	1	1	Co	Monto
36	912619104014	NIROSHIKA R	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Nirasika.
37	912619104017	PARAMESHWARI S	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Drowthy
38	912619104019	RANJANI K	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Kujani
39	912619104020	RILWANA PARVEEN J	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Park.M
40	912619104021	ROOPINA R	III / CSE	1	/	1	1	<b>P</b>	1	1	1	1	/	10	And
41	912619104022	SANDHIYA B	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Sul.
42	912619104023	SANTHI D	III / CSE	1	1	1	1	1	1	1	1	./	1	10	Sam
43	912619104024	SARANYA C	III / CSE	a	ce	1	1	1	1	1	1	1	1	08	De la companya della companya della companya de la companya della
44	912619104027	SNEHA R	III / CSE	1	1	1	1	1	1	1	1	1	1	LO	Oneha
45	912619104029	SURIYA JOTHI S	III / CSE	1	1	1	1	1	1	1	1	1	1	(0)	8.74
46	912619104301	ABINAYA S	III/CSE	1	1	1	1	1	1	1	1	1	1	w	Sil

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47	912619104501	ISWARYA C	III / CSE	1	1	1	1	1	1	1	1	1	1	10	Ishup.
48	912620104001	AKALYA S	II / CSE	1	1	1	1	-	1	1	1	1	1	0)	3. Akalyer
49	912620104002	HEMA V	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Aw.
50	912620104003	ISWARYA R	II / CSE	1	1	1	1	1	1	1	1	1	1	10	12-1-1
51	912620104004	KALAIVANI S	II / CSE	1	1	/	1	1	1	1	1	1	1	10	Relaivoned.
52	912620104005	KALPANA K	II / CSE	1	1	1	1	1	1	1	1	1	1	10	K. Kall J.
53	912620104006	MAHALAKSHMI P	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Maht
54	912620104007	MEIYYAMMAL M	II / CSE	1	1	1	1	1	1	1	1	1	1	10	May . M.
55	912620104008	NANDHINI P	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Mi
56	912620104009	PRASANNA DEVI P	II / CSE	1	1	1	1	1	1	1	1	1	/	10	Prosonnel
57	912620104010	PRISHIYA E	II / CSE	1	1	1	1	1	/	1	1	1	1	10	Prisaly
58	912620104012	ROSAMMAL M	II / CSE	1	1	1	1	1	1	/	1	1	1	10	Rose .
59	912620104013	ROSHIKA K	II / CSE	1	1	1	1	1	1	1	1	/	1	10	Roshita
60	912620104014	SABHA AYSHA S	II / CSE	1	1	1	1	1	1	1	1	1	/	10	S. Saftongel
61	912620104015	SATHIYASRI P	II / CSE	1	1	1	1	1	1	1	1	1	1	10	P.S.Y
62	912620104016	SIVAGAMI D	II / CSE	1	1	1	1	/	1	1	1	1	1	10	DAY.
63	912620104017	SIVAHARINI S	II / CSE	1	1	1	1	a	a	1	1	/	1	08	of one
64	912620104018	SUBASHINI C	II / CSE	/.	/	1	1	1	1	1	/	1	1	10	Subor
			SPR	BHAL	HTAS	ATH CIPAL ENGII OR W			3						

65	912620104019	SUBASHINI M	II / CSE	/	1	1	1	1	1	1	1	1	1	10	19Sil.
66	912620104020	SWETHA D	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Ruetha
67	912620104021	VANATHI T	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Trate
68	912620104022	VINCIYA MARY S	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Silvinger
69	912620104301	AARTHI P	II / CSE	1	1	1	1	1	1	1	1	1	1	10	Austhi
70	912620104303	JANANI B	II / CSE	1	1	1	1	1	1	1	1	1	1	10	- Just
71	912620104304	VAISHNAVI R	II / CSE	1	1	1	1	1	1	1	1	1	/	10	Vous

VAC Coordinator

Dr. S. 14. ....

Ph.D., CPR. SRI BHARATHI ENGINELLING |
COLLEGE FOR WOMEN
Kalkkurchi - 622 303, Pudukkottai Dt

HOD/CSE

HOD / CSE

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(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

### Report on Value Added Course

Title: Machine Learning with Python

Resource Person: Resource Person 1:

Mr. K.Marimuthu Ms.D.Janani Master Trainer Master Trainer

Resource Person 2:

30 Hours

Rooboo Tech Rooboo Tech

Date of conduct from: 09.08.2021 To: 13.08.2021 Duration:

Organized Department: COMPUTER SCIENCE AND ENGINEERING

Participant Year: 2,3,4(CSE) Semester: ODD No. of Students Registered: 71

Venue: Auditorium

#### Outcome of Value Added Course (VAC)

#### At the end of the VAC course the student can able to

- > Describe the various types of Machine Learning algorithms and when to use them.
- > Compare and contrast linear classification methods including multiclass prediction, support vector machines, and logistic regression.
- Write Python code that implements various classification techniques including K-Nearest neighbors (KNN), decision trees, and regression trees.
- Evaluate the results from simple linear, non-linear, and multiple regression on a data set using evaluation metric.

#### **Assessment Process**

- Students securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

VAC Coordinator

HoD / CSE

**Principal** 

Dr. S.THILAGAVATHI M.E.,Ph.D.,

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Ptidanisca Dt. SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURCHI - 822 303. PUDUKKOFTAI DISTRICT





SOFTWARE TRAINING INSTITUTE

# Certificate of Completion

This is to certify that Ms. J. RASM? is studying 199 CSE at Sri Bharathi Engineering College for Women has successfully completed her value added course titled Machine Learning With Python during the period from 09.08.2021 to 13.08.2021.

Managing Director
ROOBOO

Dr. S.THILAGAVATHI M.E., Ph.D.,

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt. Principal

**SBECW** 





SOFTWARE TRAINING INSTITUTE

# Certificate of Completion

This is to certify that Ms. R. ROOPMA is studying 19 CSE at Sri Bharathi Engineering College for Women has successfully completed her value added course titled Machine

Learning with Python during the period from 09.08.2021 to 13.08.2021.

Managing Director
ROOBOO

Dr. S.THILAGAVATHI M.E., Ph.D.,

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Da Principal SBECW





SOFTWARE TRAINING INSTITUTE

# Certificate of Completion

This is to certify that Ms.M. RUPASRI is studying N 17 at Sri Bharathi Engineering College for Women has successfully completed her value added course titled Machine Learning With Python during the period from 09.08.2021 to 13.08.2021.

Managing Director

Principal

r. S.THILAGAVATHIME Ph.D. SBECW

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.





SOFTWARE TRAINING INSTITUTE

# Certificate of Completion

This is to certify that Ms. S. AKILA is studying N CSE at Sri Bharathi Engineering College for Women has successfully completed her value added course titled Machine Learning With Python during the period from 09.08.2021 to 13.08.2021.

Managing Director

Principa

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukköttai Dt.

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

Name of the Student:

Year/Sem:

**AU Register Number:** 

#### MCQ QUESTIONS (25X1 = 25 Marks)

MCQ QUESTIO	1NS (25A1 – 25 Warks)
1. Type of matrix decomposition model is	c) logical model
a) predictive model	o) logical model
b) descriptive model	d) None
2. PCA is	than number of input attributes
a) backward feature selection	c) feature extraction
b) forward feature selection	d) None of these
3. Supervised learning and unsupervised cluster	ring both require which is correct according to the
statement.	11. You are given reviews of few Netflix scries
a) input attribute	c) output attribute
b) hidden attribute	d) categorical attribute
<ol> <li>Following are the types of supervised learning</li> <li>a) regression</li> </ol>	c) subgroup discovery
b) classification	d) All of above
5. A feature F1 can take certain value: A, B, C, college. Here feature type isa) ordinal	D, E, & F and represents grade of students from a c) categorical
b) nominal	d) boolean
6. Following is powerful distance metrics used a) manhattan distance	by Geometric model  1. c) All of above
2. b) euclidean distance	3. d) None of above

Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL

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7. The output of training process in machine learning	is TOME FROM SAME TOP
a) machine learning algorithm	1. c) null
2. b) machine learning model	3. d) accuracy
8. Which of the following is a good test dataset chara-	
<ul><li>a) is representative of the dataset as a whole</li><li>b) large enough to yield meaningful results</li></ul>	c) All of above  1. d) None of above
2.	
<ol> <li>Which of the following techniques would perform         <ul> <li>a) removing columns which have high variance             in data</li> </ul> </li> </ol>	better for reducing dimensions of a data set? c) removing columns with dissimilar data trends
b) removing columns which have too many missing value	d) None of the above
10. What characterize is hyperplane in geometrical n	nodel of machine learning?
1. a) a plane with 1 dimensional fewer than number of input attributes	2. c) a plane with 2 dimensional more than number of input attributes
b) a plane with 1 dimensional more than number of input attributes	1. d) a plane with 2 dimensional fewer than number of input attributes
	3. Supervised learning and unsupervised o
11. You are given reviews of few Netflix series mark	ked as positive, negative and neutral. Classifying
reviews of a new netflix series is an example of  1. a) unsupervised learning	1. c) supervised learning
2. b) semi supervised learning	3. d) reinforcement learning
12. Like the probabilistic view, the view a with each classification	illows us to associate a probability of membership
a) deductive	c) classical
b) exampler	d) inductive
13. The problem of finding hidden structure in unlab	peled data is called
1. a) unsupervised learning	1. c) supervised learning
2. b) reinforcement learning	3. d) None
14. If machine learning model output involves target as	t variable then that model is called
1. a) predictive model	1. c) reinforcement learning
2. b) descriptive model	3. d) All of above
Dr. S.THILAGAVATH	M.E., Ph.D.,
SRI BHARATHI ENGIN	MEERING
SRI BHARATHI ENGLI COLLEGE FOR WO Kaikkurchi - 622 303, Pud	ukkottai Dt.

of babies bases on stock's populational lumber of babbase	
15. Database query is used to uncover this type of know	rledge.
1. a) hidden amosimo do la	1. c) deep
2. b) shallow	3. d) multidimensional
<ul><li>16. Data used to build a data mining model.</li><li>1. a) training data</li></ul>	1. c) test data
2. b) hidden data	3. d) validation data
17. Application of machine learning methods to large day	atabases is called
1. a) big data computing	1. c) data mining
2. b) artificial intelligence	3. d) internet of things
18. Which learning Requires Self Assessment to identif	y patterns within data?
1. a) supervised learning	2. c) unsupervised learning
3. b) semi supervised learning	4. d) reinforced learning
19. In simple term, machine learning is	
1. a) prediction to answer a query	1. c) All of above
2. b) training based on historical data	3. d) None of above
20. Of the Following Examples, Which would you addr	ress using an supervised learning Algorithm?
1. a) given a set of news articles found on the web, group them into set of articles about the same story	<ol> <li>c) given a database of customer data, automatically discover market segment and group customers into different market segments</li> </ol>
b) given email labeled as spam or not spam, learn a spam filter	<ol> <li>d) find the patterns in market basket analysis</li> </ol>
21. If machine learning model output doesn't involves to	arget variable then that model is called
as	
1. a) predictive model	1. c) reinforcement learning
2. b) descriptive model	3. d) all of the above
22. In what type of learning labelled training data is use	ed
<ol> <li>a) supervised learning</li> <li>2.</li> </ol>	3. c) reinforcement learning
4. b) unsupervised learning	1 d) active learning
Dr. S.THILAGAVATHI M PRINCIPAL SRI BHARATHI ENGINE	EKING
SRI BHARATHI ENGINE COLLEGE FOR WO Kaikkurchi - 622 303, Puduk	kottai Dt.

23. In the example of predicting number of babie	s based on stork's population ,Number of ba	bies
s 1. a) feature	1. c) outcome	
2. b) observation	3. d) attribute	
24. Following are the descriptive modelsa)	c) bidden data	
b)	d)	
<ol> <li>classification</li> <li>clustering</li> <li>association rule</li> <li>Both 1 and 2</li> </ol>		
25. In following type of feature selection method  1. a) backward feature selection	l we start with empty feature set  1. c) All of above	11
2. b) forward feature selection	3. d) None of above	
Dr. S.THILAGAVATHI PRINCIPAL SRI BHARATHI ENGIN COLLEGE FOR WO Kaikkurchi - 622 303, Pudu	M.E.,Ph.D.,  WAC Coordinates the second seco	

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

#### ANSWER KEY

1	ь	6	c	11	С	16	a	21	b
2	С	7	ь	12	d	17	С	22	a
3	a	8	c	13	a	18	c	23	С
4	d	9	ь	14	a	19	С	24	d
5	a	10	d	15	d	20	a	25	b

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurch. - 622 303, Pugukko la Dt. VAC Coordinator

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Valu Value Added Course on "Machine Learning with Python"

Name of the Student: S. Siva hazini Year/Sem: 11 /03

Type of matrix decomposition model is	galinisat halansaningis
a) predictive model	c) logical model
(b) descriptive model	d) None
. PCA is	rein and many and part of the second and part is
a) backward feature selection	none bridge of the all the
b) forward feature selection	C feature extraction
by forward feature selection	d) None of these
Supervised learning and unsupervised cluster	ering both require which is correct according to the
tatement.	cring both require which is correct according to the
a)input attribute	c) output attribute
b) hidden attribute	d) categorical attribute
Following are the types of supervised learni	ng
a) regression	c) subgroup discovery
	CI SUDETOUD DISCOVETY
b) classification	d) All of above
b) classification	d)All of above
b) classification  A feature F1 can take certain value: A, B, C	
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is	d) All of above  D, E, & F and represents grade of students from a
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is  a) ordinal	d) All of above  D, E, & F and represents grade of students from a cocategorical
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is	d) All of above  D, E, & F and represents grade of students from a
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is  a) ordinal b) nominal	d) All of above  D, E, & F and represents grade of students from a cocategorical d) boolean
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is  a) ordinal b) nominal  Following is powerful distance metrics used	d) All of above  D, E, & F and represents grade of students from a cocategorical d) boolean  by Geometric model
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is  a) ordinal b) nominal  Following is powerful distance metrics used a) manhattan distance	d) All of above  D, E, & F and represents grade of students from a cocategorical d) boolean  by Geometric model  All of above
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b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is  a) ordinal b) nominal  Following is powerful distance metrics used a) manhattan distance b) euclidean distance  The output of training process in machine lead	d) All of above  D, E, & F and represents grade of students from a  c) categorical d) boolean  by Geometric model  All of above d) None of above  arming is
b) classification  A feature F1 can take certain value: A, B, C ollege. Here feature type is  a) ordinal b) nominal  Following is powerful distance metrics used a) manhattan distance b) euclidean distance	d) All of above  D, E, & F and represents grade of students from a  c) categorical d) boolean  by Geometric model C All of above d) None of above

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a) deductive	c) classical
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b) reinforcement learning	d) None
dipolegariani strebute	h) higden attribute
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b) descriptive model	d) All of above
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	c) deep
(a) hidden b) shallow	d) multidimensional
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(a) training data	c) test data
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учения фр.	
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a) supervised learning	(c))unsupervised learning
b) semi supervised learning	d) reinforced learning
and the second of the second s	Dr. S.THILAGAVATHI M.E., Ph.D.,
	PRINCIPAL  CRI BHARATHI ENGINEERING
7 1	COLLEGE FOR WOMEN
	Kaikkurchi - 622 303, Pudukkottai Dt.

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web, group them into set of articles about the same story	automatically discover market segment and group customers into different
(b) given email labeled as spam or not spam,	market segments d) find the patterns in market basket
learn a spam filter	analysis
21 If machine learning model output doorn't involves	Annual control of the state of
21. If machine learning model output doesn't involves as	target variable then that model is called
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(b) descriptive model	d) all of the above
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b) observation	d) attribute
24. Following are the descriptive models	
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b) association rule	d) Both 1 and 2
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b) forward feature selection	d) None of above
	010:3
Dr. S.THILAGAVATHI	M.E., Ph.D.,
PRINCIPAL SRI BHARATHI ENGIN	VAC Coordinator
COLLEGE FOR WAS Kaikkurchi - 622 303, Pt.	i.





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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **ACADEMIC YEAR 2021-2022 / ODD SEMESTER**

Value Added Course on "Machine Learning with Python"

10		NIVETHA C	IV / CSE	ATTENDAN	CE DETAILS	VAC-M	CQ TEST	OVERALL
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	No of Sessions	Attendance Mark(100)	No of Correct	MCQ Mark(100)	MARK(100) (50% of A +
14	Aisorotoania	TARKET AND	141700	Attended	(A)	Answers	(B)	50% of B)
1	912618104001	ABIRAMI S	IV / CSE	10	100	22	88	94
2	912618104002	AKILA P	IV / CSE	10	100	23	92	96
3	912618104003	BUVANESHWARI S	IV / CSE	10	100	22	88	94
4	912618104004	EVANJELIN S	IV / CSE	10	100	20	80	90
5	912618104005	FEFINA I	IV / CSE	10	100	19	76	88
6	912618104007	GOWSALYA A	IV / CSE	10	100	17	68	84
7	912618104011	JAYANTHINI T	IX / CSE	10 AGAVATHIM	100	19	76	88

COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.

8	912618104012	KAVIYASELVI K	IV / CSE	10	100	21	84	92
9	912618104013	KOWSALYA S	IV / CSE	10	100	22	88	94
10	912618104014	LAKSHMI N	IV / CSE	10	100	24	96	98
11	912618104015	LAKSHMI PRABHA M	IV / CSE	8	80	22	88	84
12	912618104017	MALA S	IV / CSE	10	100	22	88	94
13	912618104018	MAMTHA G	IV / CSE	10	100	23	92	96
14	912618104019	NIRANJANADEVI C	IV / CSE	10	100	21	84	92
15	912618104020	NIVEDHA M	IV / CSE	10	100	24	96	.98
16	912618104021	NIVETHA G	IV / CSE	10	100	22	88	94
17	912618104022	PRIYADHARSHINI R	IV / CSE	10	100	17	68	84
18	912618104023	PRIYAVATHANI A	IV / CSE	10	100	19	76	88
19	912618104024	PUVIYARASI S	IV / CSE	8	80	22	88	84
20	912618104025	RASMI J	IV / CSE	10	100	19	76	88
21	912618104026	ROSLINA BEGUM R		10 <b>GAVATHI</b> M.E PRINCIPAL	100	24	96	98

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22	912618104027	SINDHU V	IV / CSE	10 .	100	24	96	98
23	912618104028	SIVASANGAVI A	IV / CSE	10	100	20	80	90
24	912618104029	SURUTHIKA S	IV / CSE	10	100	23	92	96
25	912618104031	SUSHMEENA K	IV / CSE	10	100	23	92	96
26	912619104001	ANNAPOORANI M	III / CSE	10	100	23	92	96
27	912619104003	ARUNNAVAMEENA A	III / CSE	10	100	21	84	92
28	912619104004	DAYANA P	III / CSE	10	100	21	84	92
29	912619104005	DHARSHINI D	III / CSE	8	80	20	80	80
60	912619104007	FAHMIDHA B	III / CSE	10	100	24	96	98
1	912619104009	GULNAS FATHIMA S	III / CSE	10	100	22	88	94
2	912619104010	HELAN J	III / CSE	10	100	23	92	96
13	912619104011	KEERTHANA R	III / CSE	10	100	22	88	94
4	912619104012	MUTHULAKSHMI G	III / CSE	8	80	21	84	82
35	912619104013	MUTHU MEENAKSHI M	III SE	10	100	22	88	94

Ke tanani wa mba ana akazara Cara e Garana Ke tanani

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36	912619104014	NIROSHIKA R	III / CSE	10	100	23	92	96
37	912619104017	PARAMESHWARI S	III / CSE	10	100	24	96	98
38	912619104019	RANJANI K	III / CSE	10	100	22	88	94
39	912619104020	RILWANA PARVEEN J	· III / CSE	10	100	21	84	92
40	912619104021	ROOPINA R	III / CSE	10	100	23	92	96
41	912619104022	SANDHIYA B	III / CSE	10	100	24	96	98
12	912619104023	SANTHI D	III / CSE	10	100	21	84	92
43	912619104024	SARANYA C	III / CSE	8	80	19	76	88
14	912619104027	SNEHA R	III / CSE	10	100	23	92	96
45	912619104029	SURIYA JOTHI S	III / CSE	10	100	20	80	90
16	912619104301	ABINAYA S	III / CSE	10	100	21	84	80
17	912619104501	ISWARYA C	III / CSE	10	100	24	96	98
48	912620104001	AKALYA S	II / CSE	10	100	24	96	98
49	912620104002	HEMA V	Dr. H./TESE AG	10 AVATHIME I	100	22	88	94

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt. Kaikkurchi - 822 303, Pudukkottai D

50	912620104003	ISWARYA R	II / CSE	HIME AUD	100	21	84	92
51	912620104004	KALAIVANI S	II / CSE	10	100	20	80	90
52	912620104005	KALPANA K	II / CSE	10	100	18	72	86
53	912620104006	MAHALAKSHMI P	II / CSE	10	100	19	76	88
54	912620104007	MEIYYAMMAL M	II / CSE	10	100	17	68	84
55	912620104008	NANDHINI P	II / CSE	10	100	23	92	96
56	912620104009	PRASANNA DEVI P	II / CSE	10	100	21	84	92
57	912620104010	PRISHIYA E	II / CSE	10	100	23	92	96
58	912620104012	ROSAMMAL M	II / CSE	10	100	20	80	90
59	912620104013	ROSHIKA K	II / CSE	10	100	21	84	92
60	912620104014	SABHA AYSHA S	II / CSE	10	100	21	84	92
61	912620104015	SATHIYASRI P	II / CSE	10	100	24	96	98
62	912620104016	SIVAGAMI D	IL/CSE	10	100	22	88	94
63	912620104017	SIVAHARINI S Dr. S.T	HILAGASATH	8 I M.E.,Ph.D.,	80	20	80	80

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912620104018	SUBASHINI C	II / CSE	10	100	21	84	92
912620104019	SUBASHINI M	II / CSE	10	100	21	84	92
912620104020	SWETHA D	II / CSE	10	100	22	88	94
912620104021	VANATHI T	II / CSE	10	100	23	92	96
912620104022	VINCIYA MARY S	II / CSE	10	100	23	92	96
912620104301	AARTHI P	II / CSE	10	100	24	96	98
912620104303	JANANI B	II / CSE	10	100	22	88	94
912620104304	VAISHNAVI R	II / CSE	10	100	22	88	94
	912620104020 912620104021 912620104022 912620104301 912620104303	912620104020 SWETHA D  912620104021 VANATHI T  912620104022 VINCIYA MARY S  912620104301 AARTHI P  912620104303 JANANI B	912620104020       SWETHA D       II / CSE         912620104021       VANATHI T       II / CSE         912620104022       VINCIYA MARY S       II / CSE         912620104301       AARTHI P       II / CSE         912620104303       JANANI B       II / CSE	912620104019         SUBASHINI M         II / CSE           912620104020         SWETHA D         II / CSE           912620104021         VANATHI T         II / CSE           912620104022         VINCIYA MARY S         II / CSE           912620104301         AARTHI P         II / CSE           912620104303         JANANI B         II / CSE	912620104019         SUBASHINI M         II / CSE           912620104020         SWETHA D         II / CSE           912620104021         VANATHI T         II / CSE           912620104022         VINCIYA MARY S         II / CSE           912620104301         AARTHI P         II / CSE           912620104303         JANANI B         II / CSE           10         100           10         100	912620104019         SUBASHINI M         II / CSE         II / CSE           912620104020         SWETHA D         II / CSE         10         100         22           912620104021         VANATHI T         II / CSE         10         100         23           912620104022         VINCIYA MARY S         II / CSE         10         100         23           912620104301         AARTHI P         II / CSE         10         100         24           912620104303         JANANI B         II / CSE         10         100         22	912620104019         SUBASHINI M         II / CSE         10         100         22         88           912620104020         SWETHA D         II / CSE         10         100         23         92           912620104021         VANATHI T         II / CSE         10         100         23         92           912620104022         VINCIYA MARY S         II / CSE         10         100         24         96           912620104301         AARTHI P         II / CSE         10         100         22         88           912620104303         JANANI B         II / CSE         10         100         22         88

VAC Coordinator

Dr. S.THILAGAYATHI M.E., Ph.D., PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

M6D/CSE

HOD / CSE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI,

PUDUKKOTTAI - 622 303