MARATHA VIDYA PRASARAK SAMAJ'S
Karmaveer Adv. Baburao Ganpatrao Thakare
College of Engineering, Nashik

Permanently Affiliated to Savitribai Phule Pune University Vide Letter No. CA/1542 & Approved by AICTE New Delhi - Vide Letter No. 740-89-32 (E) ET/98 AISHE Code - C-41622

NBA

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NAAC

Department of Information Technology

Academic Year :- 2023-24	Class:- TE
Semester :- I	Date :- 07/10/2023
CO : - 2	PO :- 2, 3, 4, 6 PSO:-2

Innovative Teaching Methods

Title of Innovation method/activity: Creative Problem Solving

1. Name of Faculty: Ms. T. S. Pawar

2. Subject: Machine Learning

3. Objective of Method:

1. To analyze machine learning task
2. To implement Machine learning model for given task
3. To analyze different learning techniques on same task and comment on it

4. Description of method with Benefits:

Creative problem-solving is breaking down problems to understand them, generate solutions, and evaluate them to find an effective solution. Theoretical material regarding supervised and un supervised machine learning was provided to students in advance on where asked to study implement and analyze real machine learning task and prepare document on the same.

The method Impact:

Each student studied and implements different machine learning techniques on given task. It helped students to analyzing the topic in details, implementing concluding remarks on the same.

Roles and Responsibilities:

- **Teacher**
  - Provision of theoretical material and format to prepare report
  - Prepare assessment methodology

- **Student**
  - Search for Machine learning task
  - Once topic is selected understand and implement machine learning model.
  - Analyze different models and prepare report on it.
  - Explain topic while submission of report.

5. Assessment Tools & Rubrics:

| Sr. No	Name of Method	Evaluation Criteria	Max. Score	Excellent (100%)	Satisfactory (60%)	Poor (20%)
1	Creative Problem Solving	Understanding and Implementation	10	• Good knowledge of the issues, • Complete implementation • Appropriate Answers to Questions.	• Adequate knowledge of the issues, • Partial implementation • Answers questions, but often with little insight.	• Inadequate knowledge of the issues, • Incomplete implementation • Inappropriate Answer
		Report Writing	5	• Appropriate content • Proper formatting • Ethical practices	• Less relevant content • Fairly appropriate	• Inappropriate content • No formatting
		Timely Submission	5	• Submission within deadline	• Submission within week	• Late submission

6. Evaluation Sheet

Sr. No.	Result Analysis	
1	Total Student Present	69
2	Number of Student Scoring above 60%	69
3	Percentage of student Scoring above 60%	0

7. Impact Analysis:

| Questions	3 – Strongly Agree / Excellent	2 – Agree / Good	1- Disagree / Average
Was the creative problem solving activity helpful for improving analytical skills? (PO2)	59	8	0
Are you able to implement machine learning task using different algorithm? (PO3)	53	14	0
Are you able to analyze and interpret results generated by different machine learning algorithm? (PO4)	58	9	0
Are you able to apply contextual knowledge to assess societal, health, safety, legal and cultural issues? (PO6)	55	12	0
Are you able to solve real-world machine learning tasks? (PSO2)	51	15	1

Was the creative problem solving activity helpful for improving analytical skills? (PO2)
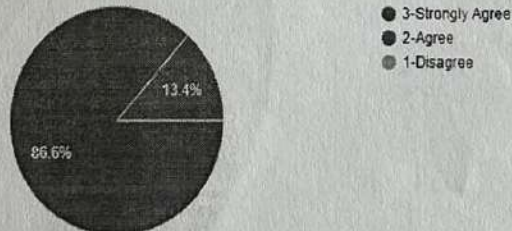
67 responses

- 3-Strongly Agree
- 2-Agree
- 1-Disagree

11.9%

88.1%
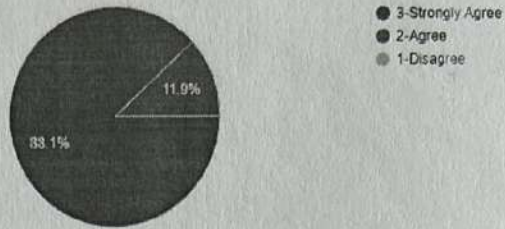
Are you able to implement machine learning task using different algorithm? (PO3)

67 responses
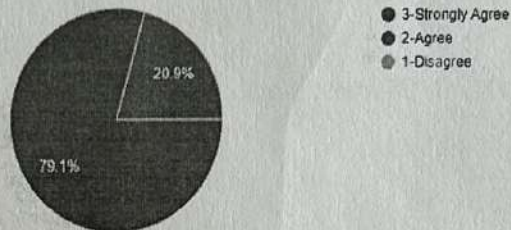
- 3-Strongly Agree
- 2-Agree
- 1-Disagree

20.9%

79.1%
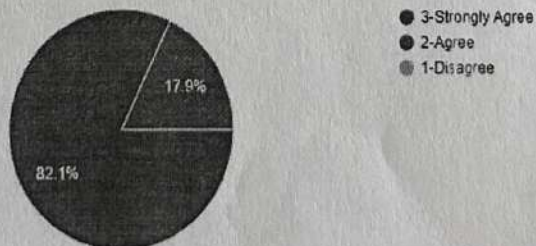
Are you able to analyze and interpret results generated by different machine learning algorithm? (PO4)

67 responses

- 3-Strongly Agree
- 2-Agree
- 1-Disagree

13.4%

86.6%

Are you able to apply contextual knowledge to assess societal, health, safety, legal and cultural issues? (PO6)

67 responses

- 3-Strongly Agree
- 2-Agree
- 1-Disagree

17.9%

82.1%

Are you able to solve real-world machine learning tasks? (PSO2)

67 responses

- 3-Strongly Agree
- 2-Agree
- 1-Disagree

22.4%

76.1%
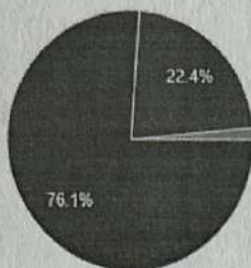
8. **For review and critique contact: e-mail address of faculty and HOD**

pawar.tejaswini@kbtcoe.org

hod.it@kbtcoe.org

Ms. T. S. Pawar

Course Incharge

Dr. S. A. Talekar

HOD

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Department of Information Technology

A.Y. 2023-24   Third Year   Sem-I

Subject: Machine Learning
Innovative Teaching Method: Creative Problem Solving

Roll No	Name	Topic
1	Harshali Sanjay Ahire	Heart Disease Prediction
2	Pratiksha Sandip Ahire	Fraud Detection In Banking
3	Dhiraj Pandhrinath Bagul	Career Recommendation System
4	Aditya Madhav Bankar	Calories Burnt Prediction
5	Abhishek Barahate	Stock Market Analysis
6	Deepak Dadasaheb Bhalerao	Waiter's Tip Prediction
7	Janhavi Rajesh Bhambare	Online Advertisement Liking Prediction
8	Pratik Sharad Borade	Loan Approval Prediction with ML
9	Samiksha Dipak Bramhankar	Movie Recommendation System
10	Rohit Namdev Dahatonde	Stock Market Analysis
11	Tejasvini Vijay Dandge	Rainfall Prediction
12	Yash Sharad Deore	Email Spam Detection Analysis
14	Darshana Shyamnath Dusing	Bitcoin Price Prediction
15	Gaurav Jayant Fate	SMS Spam Detection
16	Rashmi Sham Ghorpade	Auto Corrector Feature Using NLP
17	Prathamesh Pramod Gosavi	Fake News Detection
18	Rutuja Namdeo Gunjal	Flipkart Review Analysis
19	Prasad Ramesh Ingole	Music Recommendation System
20	Purva Randhir Jadhav	Loan Eligibility Prediction
21	Om Vijay Kapadnis	Student Marks Prediction
22	Aditi Ramesh Katale	Wine Quality Detection

23	Vidya Dattu Kekan	Dogecoin Price Prediction With Machine Learning
24	Shantanu Madhav Khaire	Loan Status Prediction
25	Prathamesh Khairnar	Language Detection System
27	Shital Dilip Khatale	Microsoft Stock Price Prediction Using Machine Learning
28	Harsh Ulhas Koshti	Flight Delay Prediction
29	Pooja Sunil Kshirsagar	Dog Breed Classification Using Machine Learning
30	Rushikesh Rajendra Kushare	Trafic Prediction
31	Manasi Rahul Mahajan	Box Office Revenue Prediction Using Linear Regression
32	Tanmay Mahajan	Loan Status Prediction
33	Divya Bhagwat Mahajan	Speech Emotion Recognition Model
34	Sanjana Mangesh Mahale	Diabetes Prediction
35	Sayali Arvind Marathe	Loan Approved Prediction
36	Samruddhi Mulherkar	Twitter Sentiment Analysis
37	Harshwardhan Nichit	Heart Disease Prediction
38	Mansi Nitin Nikam	Instagram Reach Analysis
40	Nikhil Samadhan Nikam	Calories Burnt Prediction
41	Payal Bhagwat Padmane	Uber Price Prediction
42	Roshan Nandkishor Pagar	Online Payment Fraud Detection
43	Sneha Shankar Pardeshi	Waiter's Tip Prediction
44	Yash Lalitkumar Patil	Music Recommendation System
45	Yash Sachin Patil	Rainfall Prediction
46	Om Ashok Patil	Mobile Price Prediction
47	Piyush Yogesh Patil	Shopping Mall Sales Prediction
48	Yogeshwar Jitendra Patil	Car Price Prediction
49	Bhagyashri Patil	Fresher's Salary Prediction
50	Tanay Rajendra Tare	Breast Cancer Classification Using Ml
51	Sanika Ganesh Patil	Gold Price Prediction
52	Tanmay Pramod Patil	Fake Currency Detection
53	Tejashree Sanjay Rasal	Zomato Dataset Analysis
54	Aditya Keshav Rayate	Crypto Price Prediction
55	Vedant Hemant Sarolkar	Heart Disease Prediction

56	Dikshant Bharat Sawant	Amazon Product Recommendation
57	Divya Vishwanath Shewale	Iris Flower Classification
58	Kunal Popatrao Shewale	IPL Score Prediction
59	Kaveri Vinod Shinde	Titanic Survival Prediction
60	Kiran Shinde	Wine Quality Prediction
61	Yashashri Sanjay Shinde	TEDx Talk Recommendation System
62	Nikita Sunil Sonawane	Loan Prediction Using ML
63	Gayatri Dilip Surwade	Income Prediction
64	Varad Suryawanshi	Purchase Prediction
65	Avishkar Arjun Tathe	Shape Detection Model
66	Ajit Popat Thakare	Ola Bike Ride Request Forcast
67	Manisha Bhagwan Urade	Customer Segmentation Using Machine Learning
68	Gayatri Narendra Bhalerao	Stock Price Prediction
69	Vaidehi Rajesh Chavan	Multiple Disease Prediction System
70	Devendra Kakaji Deore	Recommendation Model
71	Jayesh Gangaram Gavit	Real Time Object Detection Model
72	Aniket Sunil Kshirsagar	Weather Forecasting Model
73	Dhanashri Rajesh Palde	Sonar Rock Vs Mine Prediction
74	Snehal Mahesh Mogal	Book Recommendation System
75	Omkar Vitthal Savant	Youtube Content Recommendation
76	Nikita Ashroba Vharkate	House Price Prediction
77	Utkarsh Sanjay Pawar	Employee Attrition Prediction

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Department of Information Technology

A.Y. 2023-24   Third Year   Sem-I

Date of submission: 07/10/2023

Subject: Machine Learning

ITM Marksheet : Creative Problem Solving

Roll No	Name	Understanding and Implementation (10)	Report Writing (5)	Timely Submission (5)	Total (20)	Sign
1	Harshali Sanjay Ahire	9	5	5	19	Pahire
2	Pratiksha Sandip Ahire	10	4	5	19	
3	Dhiraj Pandhrinath Bagul		AB			
4	Aditya Madhav Bankar	7	3	4	14	
5	Abhishek Barahate		AB			
6	Deepak Dadasaheb Bhalerao	9	4	5	18	Bhalerao
7	Janhavi Rajesh Bhambare	9	5	4	18	Janhavi
8	Pratik Sharad Borade	10	5	5	20	Bay
9	Samiksha Dipak Bramhankar	7	3	4	14	Brrakar
10	Rohit Namdev Dahatonde	9	5	5	19	Rut
11	Tejasvini Vijay Dandge	10	5	5	20	Dandy
12	Yash Sharad Deore	8	4	4	16	Deore
14	Darshana Shyamnath Dusing	8	4	5	17	
15	Gaurav Jayant Fate	9	5	5	19	Gaur
16	Rashmi Sham Ghorpade	10	4	5	19	Rashmi
17	Prathamesh Pramod Gosavi	10	5	5	20	
18	Rutuja Namdeo Gunjal	10	5	5	20	Grutuja
19	Prasad Ramesh Ingole		AB			
20	Purva Randhir Jadhav	7	4	3	14	

No.	Name				Total	Signature
21	Om Vijay Kapadnis	8	4	4	16	Okapa
22	Aditi Ramesh Katale	9	5	4	18	A Katale
23	Vidya Dattu Kekan	9	4	4	17	Okekan
24	Shantanu Madhav Khaire	7	4	5	16	SKgille
25	Prathamesh Khairnar	9	5	5	19	Tha
27	Shital Dilip Khatale	9	5	5	19	Zhatale
28	Harsh Ulhas Koshti	9	5	5	19	HKoshti
29	Pooja Sunil Kshirsagar	8	4	5	17	Pok.
30	Rushikesh Rajendra Kushare	9	5	5	18	OR
31	Manasi Rahul Mahajan	10	5	5	20	Anjan
32	Tanmay Mahajan			A B		
33	Divya Bhagwat Mahajan	9	4	4	17	Divya
34	Sanjana Mangesh Mahale	9	5	5	19	Mahale
35	Sayali Arvind Marathe	8	4	4	16	Aaathe
36	Samruddhi Mulherkar	10	5	5	20	Mulheila
37	Harshwardhan Nichit	8	4	4	16	Mehta
38	Mansi Nitin Nikam	10	5	5	20	Mi
39	Om Nikam			AB		
40	Nikhil Samadhan Nikam	9	5	5	19	
41	Payal Bhagwat Padmane	8	4	4	16	Padmane
42	Roshan Nandkishor Pagar	9	5	5	19	P
43	Sneha Shankar Pardeshi	8	5	4	17	Sneha
44	Yash Lalitkumar Patil	7	4	3	14	yash
45	Yash Sachin Patil	9	5	5	19	Patil
46	Om Ashok Patil	8	5	4	17	Om
47	Piyush Yogesh Patil	9	5	5	19	P.Patil
48	Yogeshwar Jitendra Patil	10	5	5	20	Patil
49	Bhagyashri Patil	8	4	4	16	BPatil
50	Tanay Rajendra Tare	8	4	4	16	M
51	Sanika Ganesh Patil	7	4	5	16	Patil
52	Tanmay Pramod Patil	10	5	5	20	uuy

53	Tejashree Sanjay Rasal	8	4	4	16	Rasal
54	Aditya Keshav Rayate	9	4	4	17	Rayte
55	Vedant Hemant Sarolkar	10	5	5	20	Vedant
56	Dikshant Bharat Sawant	8	4	4	16	
57	Divya Vishwanath Shewale	10	5	4	19	Shewale
58	Kunal Popatrao Shewale	8	5	4	17	
59	Kaveri Vinod Shinde	8	4	5	17	Shinde
60	Kiran Shinde	9	4	4	17	Kiran
61	Yashashri Sanjay Shinde	8	4	4	16	
62	Nikita Sunil Sonawane	7	4	4	15	
63	Gayatri Dilip Surwade	8	5	5	18	Surwade
64	Varad Suryawanshi	9	5	5	19	
65	Avishkar Arjun Tathe	7	3	4	14	
66	Ajit Popat Thakare		AB			
67	Manisha Bhagwan Urade	8	4	4	16	
68	Gayatri Narendra Bhalerao	8	4	4	16	
69	Vaidehi Rajesh Chavan	8	4	5	17	Chavan
70	Devendra Kakaji Deore	9	4	4	17	Deore
71	Jayesh Gangaram Gavit	9	4	4	17	Gavit
72	Aniket Sunil Kshirsagar	10	5	4	19	
73	Dhanashri Rajesh Palde	10	5	5	20	
74	Snehal Mahesh Mogal	8	4	3	15	Snehal
75	Omkar Vitthal Savant	9	4	5	18	Omkar
76	Nikita Ashroba Vharkate	8	4	4	16	Nharat
77	Utkarsh Sanjay Pawar	7	4	3	14	Paw

Ms. T. S. Pawar
Course Teacher

Dr. S. A. Talekar
Head of Department