

## **ABOUT RMCET:**

Prabodhan Shikshan Prasarak Sanstha is a public charitable trust (Reg. No. E-697 Ratnagiri, dated 7th June 1995) registered under the Public Trust Act 1950. The Institute in its two glorious decades has pioneered the education from KG to PG. Rajendra Mane College of Engineering and Technology, Ambav, Devrukh (approved by AICTE, New Delhi, recognized by Directorate of Technical Education, Maharashtra and affiliated to Mumbai University) has been serving for the noble cause of Quality Technical Education since 1998.

RMCET is located at green valley of Sahyadri ranges on 46.25 acres of land, about 7 Kms. from Devrukh and 40 Kms. from Ratnagiri. The campus includes Administrative and Instructional Area, Workshops, Laboratories, Central Library and Residential buildings, etc. area admeasuring 20461 Sq.mtrs. College has majorly 4 branches viz. Computer, Electronics and Telecommunication, Automobile and Mechanical Engineering along with one PG Programme i.e. Master of Management Studies. The College has earned the reputation as being one of the best colleges in Konkan Region.

### **CHIEF PATRON:**

**Hon. Shri. Ravindraji Mane**

Former-Minister of State Finance and Planning, Development, Irrigation, Water Supply and Sanitation.

### **PATRON:**

**Dr. M. M. Bhagwat**

Principal, RMCET, Ambav.

### **CONVENER:**

**Mr. M. Y. Gadkari**

HOD & Asst. Prof., Computer Engg., RMCET, Ambav,

### **COORDINATOR:**

**Mr. P. S. Gamare**

Asst. Prof., Computer Engg., RMCET, Ambav,

### **ORGANISING COMMITTEE:**

**Mr. L. S. Naik**

Asst. Prof., Computer Engg., RMCET, Ambav,

**Ms. S. R. Mangale**

Asst. Prof., Computer Engg., RMCET, Ambav,

**Ms. S. R. Jadhav**

Asst. Prof., Computer Engg., RMCET, Ambav,

### **RESOURCE PERSON:**

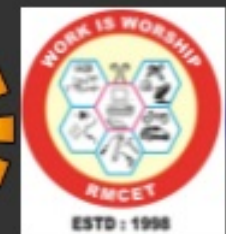
Eminent Faculty from IITs, NITs, Teaching Learning Centres and Senior Faculty

## **AICTE-ISTE Sponsored Refresher Course**

on

## **"Recent Trends in AI"**

11th to 17th January, 2022



**Organized by**



**Department of Computer Engineering**

**Rajendra Mane College of**

**Engineering and Technology**

A/P: Ambav, Devrukh, Tal: Sangameshwar,  
Dist: Ratnagiri, Maharashtra, India - 415804

Tel.: (02354) 260992 / 261502 / 261503

Fax: (02354) 261501

Website: [www.rmccet.com](http://www.rmccet.com)



## Course Objectives & Context:

1. To understand major building blocks used in Deep Learning based solutions. Specifically, feed forward neural networks, convolutional neural networks, recurrent neural networks, etc.
2. To understand and apply different loss function and optimization techniques to improve the performance of architecture.

## Course Outcome:

After successful completion of this course, Faculty will be able to:

1. Understand the fundamentals of deep learning.
2. Use various techniques of deep learning in the field of research and innovation.
3. Design and implement deep Neural Network Systems by using standard algorithms.

## Who Can Attend?

Participants are expected to have an engineering background from Computer, Information Technology, Electronics and Telecommunication or other relevant disciplines are most welcome.

## Number of Participants:

Number of Participants Expected-40

## Session Details:

### Date: 11/01/2022

Session 1: (9.30 am to 11.00 am) Inauguration  
Session 2: (11.30 am to 1.00 pm) Python Basics (Data types, List, Tuple, Set, Dictionary,)  
Session 3: (2.30 pm to 4.00 pm) Python Basics (package, File Handling, Class, Numpy, plotting)

### Date: 12/01/2022

Session 1: (9.30 am to 11.00 am) Basic Pillars and future aspects of AI  
Session 2: (11.30 am to 1.00 pm) Machine Learning, Types of machine learning, Supervised Machine learning and Unsupervised machine learning  
Session 3: (2.30 pm to 4.00 pm) Classification and Regression, Naïve Bayes Classifier

### Date: 13/01/2022

Session 1 : (9.30 am to 11.00 am), Decision Tree, Support Vector machine  
Session 2: (11.30 am to 1.00 pm) KNN, K-mean Clustering algorithm  
Session 3: (2.30 pm to 4.00 pm) Session on National Education Policy (NEP)

### Date: 14/01/2022

Session 1: (9.30 am to 11.00 am) Introduction to Neural Network, feed forward neural network  
Session 2: (11.30 am to 1.00 pm) Optimization techniques, Activation function  
Session 3: (2.30 pm to 4.00 pm) Session on Stress Management

## Date: 15/01/2022

Session 1 : (9.30 am to 11.00 am) Introduction to convolutional neural network,  
Session 2: (11.30 am to 1.00 pm) CNN architectures and applications  
Session 3: (2.30 pm to 4.00 pm) Introduction to Recurrent neural network

## Date: 17/01/2022

Session 1 : (9.30 am to 11.00 am) Types of RNN, GNN, LSTM  
Session 2: (11.30 am to 1.00 pm) Applications of RNN  
Session 3: (2.30 pm to 4.00 pm) Valedictory function

## Registration Fees:

It's an AICTE-ISTE sponsored program, so no registration fees for Participants.

## Certificate:

**Participation E-certificate will be issued by RMCET after successful completion of the course.**

## DEPARTMENT OF COMPUTER ENGINEERING

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### REPORT

#### **AICTE-ISTE Sponsored Refresher Course on “Recent Trends in AI”, 11<sup>th</sup> - 17<sup>th</sup> January, 2022**

**Rajendra Mane College of Engineering and Technology, Ambav** has organized AICTE-ISTE sponsored One-Week Refresher Course on “Recent Trends in AI” from 11<sup>th</sup> - 17<sup>th</sup> January, 2022. This FDP programme received an overwhelming response with more than 130 participants from various institutes/colleges approved by AICTE and affiliated to various Universities across the arena of India.

**Day-1, Session-1:**

**Date- 11<sup>th</sup> January, 2022**

#### **Inauguration:**

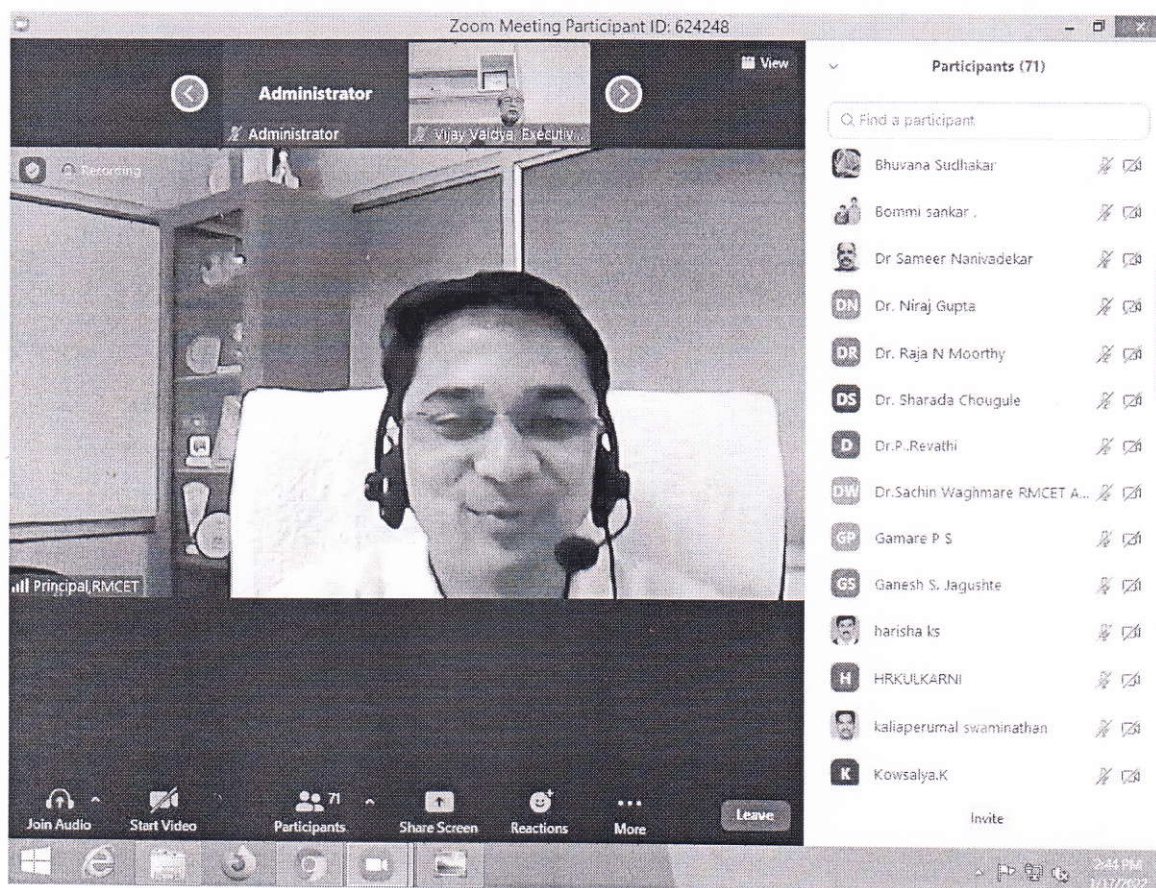
AICTE-ISTE sponsored One-Week Refresher Course on “Recent Trends in AI” was inaugurated on 11<sup>th</sup> January, 2022 by Dr. Pratapsinh Kakasaheb Desai, President, ISTE, New Delhi along with Hon. Shri. Ravindraji M. Mane, Chairman, P.S.P.S., Dr. M. M. Bhagwat, Principal, RMCET, Head of the Department, CE Department, Mr. M. Y. Gadkari and Coordinator of the Refresher Course.

**Dr. M. M. Bhagwat** has welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this faculty development programme. He also focused with latest technological advances in the field of Artificial Intelligence and Machine Learning. Practical learning is as much important as the theoretical learning. This is the sole responsibility of the teachers, who transmits their theoretical and practical knowledge to their academic circles and students. So, it is essential to develop an academicians that is capable of early identifying the thrust areas of research in AI.



**Principal, Dr. M. M. Bhagwat** thanked the AICTE-ISTE for selecting RMCET and sanctioning the amount to conduct the Faculty Development Programme on “**Recent Trends in AI**”. Chief Guest **Dr. Pratapsinh Kakasaheb Desai, President, ISTE, New Delhi** shared his views with the faculty on the theme of the FDP. He gave insight regarding various funding schemes available for researchers and teachers in the departments of Universities with UGC. He further added that, UGC will provide special benefits to the faculties in various disciplines by funding the research projects to encourage quality research. He emphasized that quality among teachers can be built only through faculty development programs.

At the end of the Inaugural, the session was concluded with a vote of thanks given by **Mr. P. S. Gamare, Assistant Professor, RMCET-Ambav.**





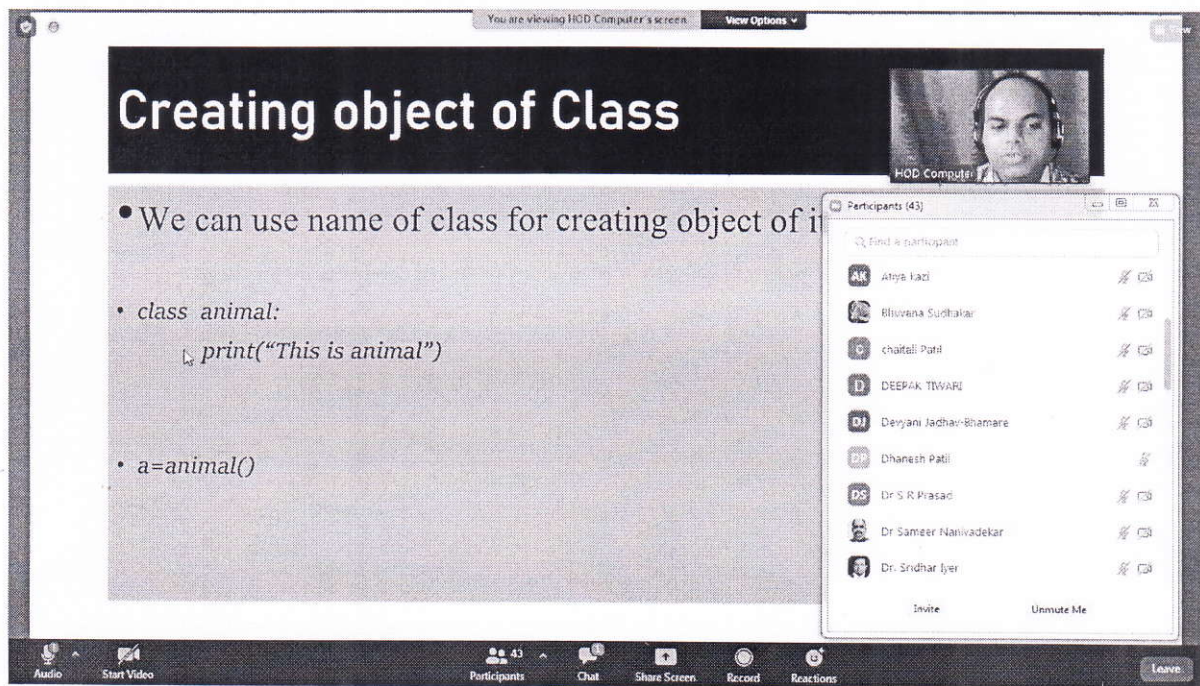
## Day-1, Session-2 and 3:

**Date- 11<sup>th</sup> January, 2022**

**Topic: Importance of Machine Learning Python Basics (Data types, List, Tuple, Set, Dictionary)**

**Resource Person: Mr. M. Y. Gadkari, RMCET-Ambav .**

The resource person of this session, **Mr. M. Y. Gadkari, RMCET-Ambav**, started his lecture on how to install and use python along with packages like Data types, List, Tuple, Set, Dictionary, Package, Class, File Handling, Numpy, plotting form the basis to start AI. He briefed the discussion about the importance of Machine Learning and Artificial Intelligence. The session was ended by a formal vote of thanks by Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav.



## Day-2, Session-1:

**Date- 12<sup>th</sup> January, 2022**

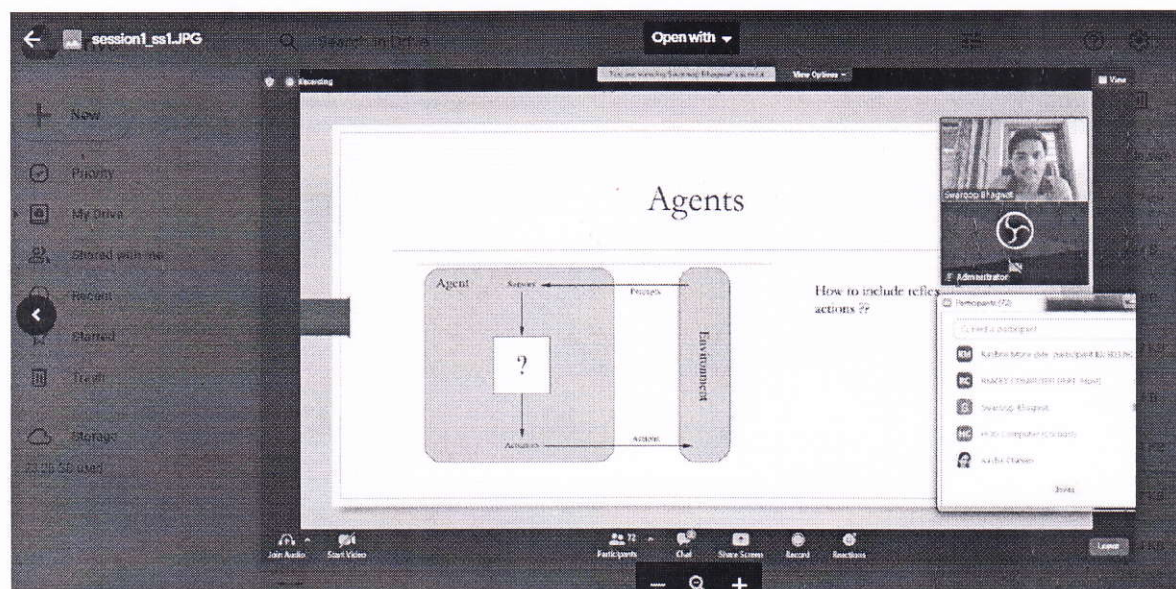
**Topic: Basic Pillars and future aspects of AI**

**Resource Person: Mr. Swaroop Bhagwat, Software Engineer II Uber, Bangalore.**

On Day 2, the Session welcome note was presented by Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav. After then, Mr. Swaroop Bhagwat, Software Engineer II Uber, Bangalore gave an idea about Basic Pillars and future aspects of AI Neural Networks and Artificial. Neural Networks and Different Classification Techniques and conducted hands-on session on classification



techniques. At the ending of session, Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav gave vote of thanks to the resource person and the delegates.



### Day-2, Session-2 and 3:

**Date- 12<sup>th</sup> January, 2022**

**Topic:** Machine Learning, Types of machine learning, Classification and Regression, Naive Bayes Classifier.

**Resource Person: Dr. Raman R. Bane, Associate Professor, GIT Lavel.**

The Day-2 technical session was started with formal welcome note by Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav. **Dr. Raman R. Bane** emphasized on the importance of Machine Learning, various methods of Unsupervised Learning, Classification and Regression, Naive Bayes Classifier etc. He introduced the Google Code Lab for developing and testing the machine learning programs. The session was ended with the vote of thanks given by Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav

Recording

You are viewing Raman Bane's screen View Options

# Perceptron

$$y = 1 \quad \text{if } \sum_{i=1}^n w_i x_i \geq \theta$$

$$y = 0 \quad \text{if } \sum_{i=1}^n w_i x_i < \theta$$

Rewriting the above,

$$y = 1 \quad \text{if } \sum_{i=1}^n w_i x_i \geq \theta$$

$$y = 0 \quad \text{if } \sum_{i=1}^n w_i x_i < \theta$$

Participants (61)

Find a participant

- Mr. Sah
- Mr. Sushant Brijal Kadam
- MYG
- NETHYKALYANI
- Pandhal Vedprakash

Join Audio Start Video Participants 61 Chat Share Screen Record Reactions Leave

## Day-3, Session-1:

Date- 13<sup>th</sup> January, 2022

Topic: Decision Tree, Support Vector machine

Resource Person: **Dr. Utkarsha Pacharney** Assistant Professor Datta Meghe College of Engineering Mumbai.

On the beginning of Day-3, welcome note was presented by Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav. Then **Dr. Utkarsha Pacharney**, as a resource person of the session highlighted the importance of Decision Tree, Support Vector machine. Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav ended the session by presenting the vote of thanks.

Recording

You are viewing Dr. Utkarsha Pacharney's screen View Options

Decision Tree.ipynb

Python Code for Decision Tree

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

Loading the Database/CSV file in the code

```
iris_df = pd.read_csv("resources/iris/iris.csv")
iris_df.head()
```

	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
0	5.1	3.5	1.4	0.2	Setosa
1	4.9	3.0	1.4	0.2	Setosa
2	4.7	3.2	1.3	0.2	Setosa
3	5.0	3.1	1.5	0.2	Setosa
4	5.0	3.6	1.4	0.2	Setosa

```
print("Size of the data", iris_df.shape)
```

Participants (35)

Find a participant

- Sumit Sankar
- Uthasatharaj Aulhas
- Dr. Sameer Nandivada
- Dr. Sharmila Chougale
- Dr. Sharmila V. Chougale
- Dhruvesh Pangele
- Ganesh S. Jangde
- Ganesh Sawant
- Gaurav Ghoshal

Join Audio Start Video Participants 35 Chat Share Screen Record Reactions Leave



### Day-3, Session-2:

**Date- 13<sup>th</sup> January, 2022**

**Topic:** KNN, K-mean Clustering Algorithm

**Resource Person: Dr. Satishkumar Varma, Professor & Head IT, Pillai College of Engineering, New Panvel.**

Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav, welcomed the resource person on Day-3. The technical session was started by Dr. Satishkumar Varma. He started his discussion with the fundamentals of Clustering Algorithm and Techniques. He demonstrated the KNN, K-mean Clustering Algorithms. The session was ended with the vote of thanks given by Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav.

### Day-3, Session-3:

**Date- 13<sup>th</sup> January, 2022**

**Topic:** Session on National Education Policy (NEP)

**Resource Person: Mr. Mandar Bhanushe, Assistant Professor, IDOL, Mumbai.**

On Day 3, welcome note was presented by Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav. Resource person of this session **Mr. Mandar Bhanushe** highlighted the vision of National Education Policy (NEP). He says that, our country's education system and research facility will become more robust and with the help of this, students who spent thousands of dollars on education in foreign countries will get global standards in line in India. With the formal vote of thanks presented by Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav ended the session.

### Day-4, Session-1:

**Date- 14<sup>th</sup> January, 2022**

**Topic:** Introduction to Neural Network, feed forward neural network.

**Resource Person: Dr. Jayavrinda Vrindavanam, Professor and Chairperson, Dayananda Sagar University, Bangalore.**

Welcome note was presented by Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav, welcomes the resource person and the delegates of the session. Our Resource Person, **Dr. Jayavrinda Vrindavanam**, discussed in detail about the basics of Neural Network, feed forward neural network and how these techniques were applied in different problem domains. Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav delivered vote of thanks.



#### **Day-4, Session-2:**

**Date- 14<sup>th</sup> January, 2022**

**Topic: Optimization techniques, Activation function.**

**Resource Person: Dr. Satishkumar Varma, Professor & Head IT, Pillai College of Engineering, New Panvel.**

On Day 4, the technical session welcome note was presented by Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav. **Dr. Satishkumar Varma** as a resource person of the session, started his discussion with Optimization techniques, Activation functions used in AI. He described the objective wise analysis of Optimization techniques, Activation functions based on the problem domain. He described well that if we have to predict the variables then use regression family. If there are huge data or having the high frequency, then neural network is best. If researcher has to compare or find the difference between the variables, then he suggested to use hypothesis testing.

Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav ended the session with formal vote of thanks.

#### **Day-4, Session-3:**

**Date- 14<sup>th</sup> January, 2022**

**Topic: Session on Stress Management**

**Resource Person: Mrs. Sonia Shirke, STC Art of Living, Ratnagiri.**

On the day-4 Session-3, Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav presented welcome note. **Mrs. Sonia Shirke, STC Art of Living, Ratnagiri** has begun his talk by explaining the importance of stress management in our daily life. She told that Effective stress management helps you break the hold stress has on your life, so you can be happier, healthier, and more productive. The ultimate goal is a balanced life, with time for work, relationships, relaxation, and fun—and the resilience to hold up under pressure and meet challenges head on. She also explains and demonstrate importance of meditation. All participants enjoyed this session. Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav ended the session with vote of thanks to the resource person and the delegates.



### **Day-5, Session-1:**

**Date- 15<sup>th</sup> January, 2022**

**Topic: Introduction to convolutional neural network**

**Resource Person: Dr. Sujata S. Alegavi, Assistant Professor Thakur College of Engineering, Mumbai.**

Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav welcomes the resource person of the session on day-5. **Dr. Sujata S. Alegavi**, inspire the participants to involve the students in the reasearch work. He explained briefly about Convolution Networks and how these techniques are useful to solve machine learning problems. Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav ended the session by giving vote of thanks to the resource person and the delegates.

### **Day-5, Session-2:**

**Date- 15<sup>th</sup> January, 2022**

**Topic: CNN architectures and applications**

**Resource Person: Dr. Raja N. Moorthy, Adjunct Professor DSU Banglore, Advisor and Retired Director of Kirusa, India.**

Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav welcomes the resource person of the session on day-5. **Dr. Raja N. Moorthy**, a renowned speaker explained briefly about Convolution Neural Network CNN architectures and applications in AI. He also explains how these techniques are useful to solve machine learning problems. Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav ended the session by giving vote of thanks to the resource person and the delegates.

### **Day-5, Session-3:**

**Date- 15<sup>th</sup> January, 2022**

**Topic: Introduction to Recurrent neural network**

**Resource Person: Dr. Vinayak A. Bharadi, Associate Professor, FAMT-Ratnagiri.**

Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav welcomes the resource person of the session on day-5. **Dr. Vinayak A. Bharadi**, discussed in detail about the basics of RNN and how these techniques were applied in diferrent problem domains. He also discussed the assumptions and limitations of LSTM. Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav ended the session by giving vote of thanks to the resource person and the delegates.

### **Day-6, Session-1:**

**Date- 17<sup>th</sup> January, 2022**

**Topic: Types of RNN, GNN, LSTM**

**Resource Person: Dr. Raja N. Moorthy, Adjunct Professor DSU Banglore, Advisor and Retired Director of Kirusa, India.**



Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav welcomes the resource person of the session on day-5. **Dr. Raja N. Moorthy**, a renowned speaker explained briefly about Types of RNN, GNN, LSTM. He explains how RNNs can use their internal state (memory) to process sequences of inputs and how LSTM is used to classify, process and predict time series given time lags of unknown duration. It trains the model by using back-propagation. Mr. P.S. Gamare, Assistant Professor, RMCET-Ambav ended the session by giving vote of thanks to the resource person and the delegates.

### **Day-6, Session-2:**

**Date- 17<sup>th</sup> January, 2022**

**Topic: Applications of RNN.**

**Resource Person: Dr. Vinayak A. Bharadi, Associate Professor, FAMT-Ratnagiri.**

Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav welcomes the resource person of the session on day-5. **Dr. Vinayak A. Bharadi**, discussed in detail about the Applications of RNN and how these techniques were applied in different problem domains. Ms. Snehal Mangale, Assistant Professor, RMCET-Ambav ended the session by giving vote of thanks to the resource person and the delegates.

### **Day-6, Session-3:**

**Date- 17<sup>th</sup> January, 2022**

### **Valedictory Session:**

On the valedictory ceremony, **Prof. Vijay D. Vaidya, Executive Secretary, ISTE New Delhi** joined the session as a Chief Guest along with **Hon. Shri. Ravindraji M. Mane, Chairman, P.S.P.S., Dr. M. M. Bhagwat, Principal, RMCET, Head of the Department, CE Department, Mr. M. Y. Gadkari and Coordinator of the Refresher Course.**

**Dr. M. M. Bhagwat, Principal, RMCET**, in his valedictory addressing, congratulated the Program Coordinator for organizing the FDP in a successful manner. Further, he appreciated the Teaching and Non-Teaching Staff Members of Computer Department for promoting such kind of development programme for the faculties. He also motivated the researchers and faculties about how to keep continuous interest in the research.

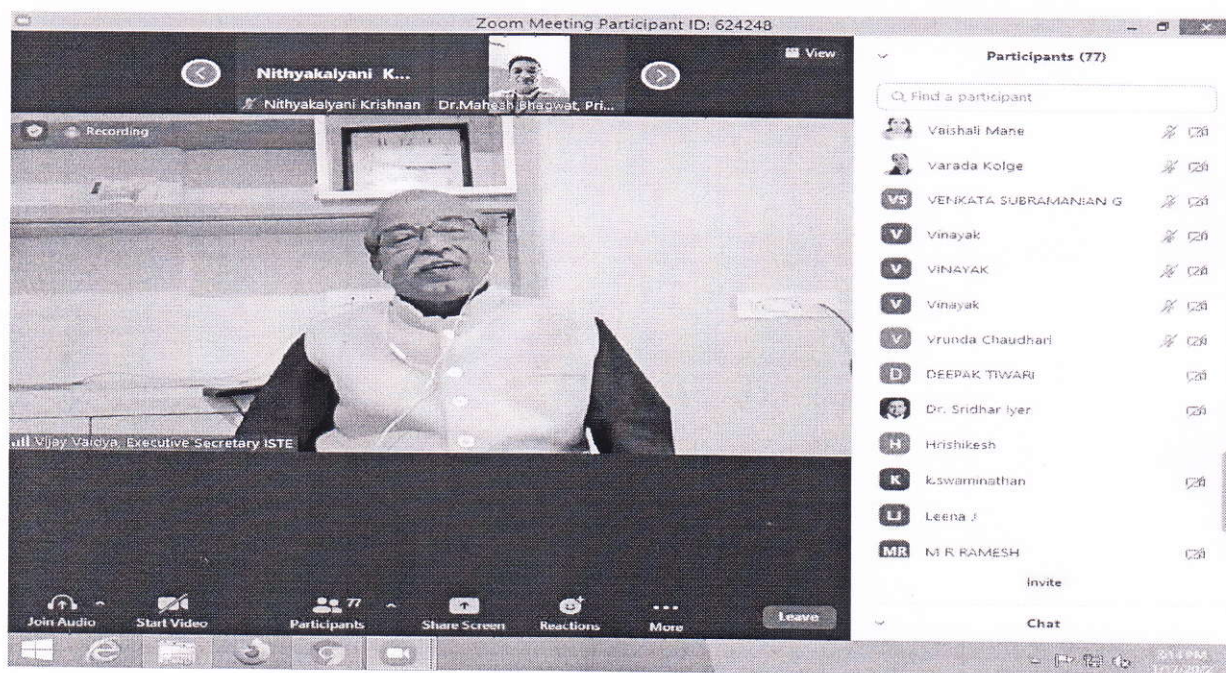
**Prof. Vijay D. Vaidya, Executive Secretary, ISTE New Delhi** during his address congratulates organizing committee and explains the importance of organizing such kind of refresher courses for upgrading the knowledge of faculty members in today's emerging areas.

During the Presidential speech, **Hon. Shri. Ravindraji M. Mane, Chairman, P.S.P.S.** congratulates organizing committee and express his heartfelt thanks **to the AICTE-ISTE for providing financial**



assistance to organize this FDP in our campus and hope we will find the support in future also for organizing such kind of activities.”

At the end of the valedictory session, vote of thanks was given by Mr. Gamare P.S. Coordinator of the Refresher Course in which he has been paid his gratitude towards all the dignitaries who has spared their valuable time and came from a far distance places to share their expertise with the participants. He also expressed the gratitude to the persons from the Print Media for their continuous coverage of the entire programme.



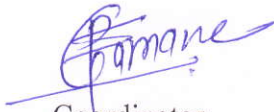
### Feedback from the Participants:

The feedback of the participants was very positive and motivational for the organizers. The percipiants felt very happy for conducting the FDP on **“Recent Trends in AI”**. They have learned a lot on AI and Machine Learning Algorithms and Applications of ML in both theoretical and practical manner. They said that, this program was very useful and helpful for them in their research work and guiding the projects to the students.

While speaking, Mr. TUKKAPPA K GUNDOOR Professor, Karnataka University Dharwad said, “I really enjoyed the workshop on **“Recent Trends in AI”**. I had the time and space to practise

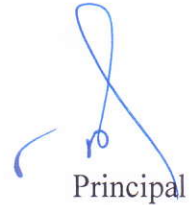
the techniques with support and compassion and I can see this is.. something I want to use and explore more.

And also, Dr. K. S. MOHANASUNDARAM from SRM Institute of Science and Technology, Vadapalani, Chennai said "This was a totally engaging workshop. Learning was happening for me on many different levels. Coordinator created an environment where we were able to learn from one another. As well as the exercises and activities they organized and skillfully guided us". I'm very grateful to the Coordinator for arranging this Refresher Course.



Coordinator

Mr. Gamare P.S.



Principal

Dr. M.M. Bhagwat

**PRINCIPAL**

Pajendra Mane College of Engineering  
& Technology Ambav, Dewrukh.  
Tal. Sangameshwar Dist. Ratnagiri,  
Pin : 415804 (Maharashtra)





PRABODHAN SHIKSHAN PRASARAK SANSTHA'S ( Reg. No. E - 697 Ratnagiri)  
**RAJENDRA MANE COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Approved by AICTE New Delhi, Affiliated to Mumbai University & Recognised by D. T. E. Govt. of Maharashtra  
 Accredited by NAAC with B+ Grade DTE Code : 3202

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## AICTE-ISTE Sponsored Refresher course on "Recent Trends in AI"

11<sup>th</sup> January 2022 to 17<sup>th</sup> January 2022

Department of Computer Engineering

Rajendra Mane College of Engineering & Technology, Ambav- Devrukh

Day & Date	Session 1	Session 2	Session 3
	9.30 AM - 11.00 AM	11.30 AM – 1.00 PM	2.30 PM – 4.00 PM
Tuesday, 11/01/2022	Inauguration Function	Python Basics (Data types, List, Tuple, Set, Dictionary)	Python Basics (package, File Handling, Class, Numpy , plotting)
Resource Person	Dr. Pratapsinh Kakasaheb Desai President, ISTE, New Delhi	Mr. M. Y. Gadkari, Assistant Professor RMCET-Ambav	Mr. M. Y. Gadkari, Assistant Professor RMCET-Ambav
Wednesday, 12/01/2022	Basic Pillars and future aspects of AI	Machine Learning, Types of machine learning, Supervised and Unsupervised machine learning	Classification and Regression, Naive Bayes Classifier
Resource Person	Mr. Swaroop Bhagwat, Software Engineer II Uber, Bangalore	Dr. Raman R. Bane, Associate Professor, GIT Level.	Dr. Raman R. Bane, Associate Professor, GIT Level.
Thursday, 13/01/2022	Decision Tree, Support Vector machine	KNN, K-mean Clustering Algorithm	Session on National Education Policy (NEP)
Resource Person	Dr. Utkarsha Pacharney Assistant Professor Datta Meghe College of Engineering Mumbai	Dr. Satishkumar Varma, Assistant Professor Pillai College of Engineering, New Panvel	Mr. Mandar Bhanushe, Assistant Professor IDOL, Mumbai






# AICTE-ISTE Sponsored Refresher course on "Recent Trends in AI"

11<sup>th</sup> January 2022 to 17<sup>th</sup> January 2022


Department of Computer Engineering

Rajendra Mane College of Engineering & Technology, Ambav- Devrukh

Friday, 14/01/2022	Introduction to Neural Network, feed forward neural network.	Optimization techniques, Activation function	Session on Stress Management
Resource Person	Dr. Jayavrinda Vrindavanam,  Professor and Chairperson, Dayananda Sagar University, Bangalore	Dr. Satishkumar Varma, Assistant Professor Pillai College of Engineering, New Panvel	Mrs. Sonia Shirke, STC Art of Living, Ratnagiri
Saturday, 15/01/2022	Introduction to convolutional neural network	CNN architectures and applications	Introduction to Recurrent neural network
Resource Person	Dr. Sujata S. Alegavi Assistant Professor Thakur College of Engineering, Mumbai	Dr. Raja N. Moorthy Professor DSU Bangalore Advisor and Retired Director of Kirusa, India	Dr. Vinayak A. Bharadi FAMT-Ratnagiri
Monday, 17/01/2022	Types of RNN, GNN, LSTM	Applications of RNN	Valedictory Function
Resource Person	Dr. Raja N. Moorthy Professor DSU Bangalore Advisor and Retired Director of Kirusa, India	Dr. Vinayak A. Bharadi FAMT-Ratnagiri	Prof. Vijay D. Vaidya Executive Secretary, ISTE, New Delhi

  
Mr. Gamare P. S.  
Coordinator



  
Dr. M. M. Bhagwat  
Principal RM CET



## UTILIZATION CERTIFICATE

Name of the Scheme under which Grant was sanctioned AICTE - ISTE Induction / Refresher programmes 2020-21

NAME & ADDRESS OF THE INSTITUTE : Rajendra Mane College of Engineering & Technology, Ambav (Devrakh)  
File No. : Registration no - 201800079  
Name of Coordinator : Mr. Gamare P.S.  
Dates of the Programme : 11<sup>th</sup> to 17<sup>th</sup> January 2022  
Title of the Programme : Recent trends in AI

Sl.No.	ISTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
01	<u>ISTE / AICTE - ISTE Induction - Refresher program / 2021-22 dated - 21/09/2021</u>	<u>93,000/-</u> <u>Ninety Three Thousand only</u>	Certified that out of the grant-in-aid of Rs. <u>93,000/-</u> (in words) sanctioned by the AICTE-ISTE during the financial year <u>2021-22</u> in favour of <u>Rajendra Mane College of Engg. &amp; Tech. Ambav</u> (name of the institute) as per letter mentioned in the margin. Rs. <u>—</u> on account of unspent balance of previous year. Rs. <u>—</u> on account of other income/receipts, a sum of Rs. <u>83165/-</u> has been utilized for the purpose for which it was sanctioned and the balance of Rs. <u>—</u> remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

### Kinds of checks exercised

- Statement of Income and Expenditure
- Receipt and Payment account, bank statement etc.
- Bills/Vouchers/receipts etc.

(Name & Signature of the Finance Officer/  
Accounts Officer of the institute with seal)



Signature of Chartered Accountant  
Name of Chartered Accountant (with seal)  
Membership No.  
Rubber Stamp  
Full address  
Date : 11/5/2022

N. S. PUROHIT  
CHARTERED ACCOUNTANT  
M. No. 040951

UDIN-22040951AITKW9160



(Name, Signature & Address of the Coordinator with seal)

Mr. Gamare P.S.

RMCEET-Ambav

Signature of Head of the Institute  
Name & designation of the Head of Institute  
Rubber Stamp  
Full Address  
Date :

10/05/2022  
PRINCIPAL  
Rajendra Mane College of Engineering & Technology Ambav, Devrukh,  
Tal. Sangameshwar Dist. Ratnagiri,  
Pin : 416804 (Maharashtra)