

Registration Form:

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Roll. No:

Gender:

Organization:

Address for Communication:

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Educational Qualifications:

Link:

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pm3jip9k](https://tinyurl.com/pm3jip9k)

Resource Person:

Dr.K.Bala Prakasa Rao
Assistant Professor,
NIT Warangal

Date:

Place:

Applicant Signature



Important Dates:

Last date for registration:
3rd May 2021

The takeaways of Guest Lecture:

Students will be able to
learn importance of
Machine Learning and its
Algorithms with real-time
examples

Contact Person:

Mr. Sravan Kumar
9441926953
Mrs. T.Jagadeeshwari
9912754470

ONE-DAY GUEST LECTURE ON “MACHINE LEARNING CONCEPTS AND ITS APPLICATIONS“

ON
4TH MAY 2021

CONVENORS

Dr. D.SHANTHI
EDC Convener, Associate Professor, CSE
Dr.Ashwani Kumar
Associate Professor, AI&ML HOD

COORDINATORS

Mr. G.Sravan Kumar
Mrs G.Swathi
Mrs.T.Jagadeeshwari

**Organized
By**

**Department of Computer Science &
Engineering**



SREYAS
**INSTITUTE OF ENGINEERING
AND TECHNOLOGY**

(Approved by AICTE, New Delhi |
Affiliated to JNTUH, Hyderabad |
Accredited by NAAC)
Hyderabad | PIN: 500068

About The College:

Sreyas Institute, located in the heart of the city, is the result of deliberation & planning of every aspect to create a world-class technical education institution. The first impression as you enter the sprawling green and verdant campus of Sreyas leaves a lasting impression of innate calm and energizing growth. The campus is scientifically planned and artistically designed. The students have access to the latest software & computing facilities for learning & research to groom them into future citizens. Our student-centric approach will ensure that Sreyans gain not just depth & breadth in their chosen area of specialization, but a holistic set of skills that will equip them to face the real world. At every stage, there will be opportunities to expand their boundaries, with multiple platforms for collaboration & learning. The infrastructure is absolutely world-class with opportunities to build practical skills in state-of-the-art laboratories & workshops.

About the Department

CSE Program is intellectually challenging discipline. This study will provide you with a strong foundation of knowledge in Problem-solving and logical thinking. Some of the areas of study are algorithms and data structures, programming languages, software engineering, data base systems, Operating Systems to name a few. A record number of jobs being created in computer science related fields. Both UG and PG programs were established in the year 2011. Current Student intake B.Tech. Programs in Computer Science and Engineering has an intake of 240 students, in Data Science and AI & ML an intake of 240 students Seminars are an integral part of our academic programs and conducted every week. It acts as a means for students to deliberate on subjects from technical to current affairs and even inspiring videos are screened. Students-initiated clubs which are intended to generate curiosity in young minds and promoting intelligent designs to help solving some of the problems in our daily life. Our students undergo entrepreneurship and inventiveness workshops, Coding sessions, and hackathons, which strive to be the most innovative in the world. In an increasingly competitive job market, CSE students have excellent options for a secure

About the Programme

MACHINE LEARNING CONCEPTS AND ITS APPLICATIONS

Machine Learning is ruling the World

*****Machine learning is a method of data analysis that automates analytical model building. It is a branch of artificial intelligence based on the idea that machines should be able to learn and adapt to experience.*****

With unprecedented advancement in this field, we're now able to quickly and automatically produce models that can analyze bigger, more complex data and deliver faster, more accurate results – even on a very large scale. Which is why it has now become a must-have skill.

Topics Covered :

- 1.What is ML?
2. ANN introduction
3. Perceptions
4. Multi-layer networks
5. Back Propagation Algorithm
- 6.Face Recognition using BP
7. Evaluation Theory
8. Few real-time examples where NN is applied

CHIEF PATRON:

Sri Anantula Vinay Kumar Reddy,
Chairman

PATRONS

Sri Chintala Ravindranath Yadav
Secretary/Correspondent

Sri Nirvetla Sarath Reddy
CEO

Sri Anantula Hriday Reddy
Vice Chairman

CO-PATRON

Dr.S.Sai Satyanarayana Reddy
Principal & Professor of CSE

ADVISORY COMMITTEE:

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Dr.Achuta Rao I/C HOD-CSE

Dr. M. Jayaram HOD-DS

Dr.N.Swapna Suhasini- Assoc Prof.

Prof.P.Sri Harsha, ICT Coordinator

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1. Mrs.Padma Joshi, Assoc.Prof.
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11. Mrs. Srilatha, Asst.Prof.
12. Mrs. Sirisha, Asst.Prof.

SUMMARY REPORT

ONE-DAY GUEST LECTURE ON “MACHINE LEARNING CONCEPTS AND ITS APPLICATIONS”

at CSE Department, Sreyas Institute of Engineering and Technology,

on 4th May 2021

About Program The primary objective of this One-Day Guest Lecture on “ Machine Learning concepts and its applications” was to enrich faculty members of Computer Science stream with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. This FDP focused on hands-on implementation of various algorithms to deliver practical and theoretical knowledge to participants.

Resource Person: Dr. K. Bala Prakasa Rao, Assistant Professor, NIT Warangal.

In the session he explained about various ML algorithms. Machine learning can be broadly defined as computational methods using experience to improve performance or to make accurate predictions. After giving introduction to all types of machine learning classifiers. In all cases, explained about the each and every classifier strengths and weaknesses with comparisons and also its quality and size are crucial to the success of the predictions made by the learner. The session was very much informative. The discussed areas are of great benefit for the participants as the topics match with the academic curriculum and beyond it. Participants were enlightened with the most widely used advance research trends in AI and ML. This in turn will help in motivating faculty.

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Overview

- Machine Learning vs Deep Learning
- Supervised Learning
 - Linear Regression
 - Gradient Descent
 - Regularization
 - Logistic Regression
- Neuron or perceptron
- Why do we need neural networks ?
- Forward Propagation
- Backpropagation

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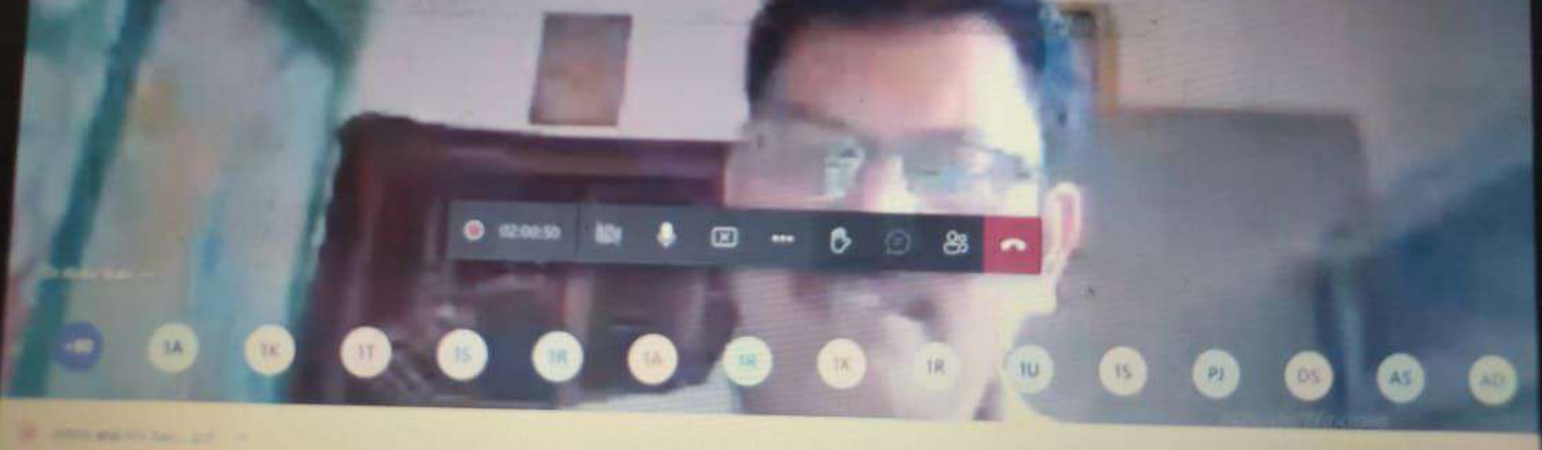
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Certificate of Participation

This is to Certify that Dr./Mr./Mrs./Ms. **M. NARESH CHOUDARY** from **Sreyas Institute of Engineering and Technology** has participated in the **One-Day Guest Lecture** on **“MACHINE LEARNING CONCEPTS AND ITS APPLICATIONS”** Organized by Department of CSE, Sreyas Institute of Engineering and Technology, Hyderabad on **May 04, 2021**.

Dr. Ashwani Kumar
Convener
HOD-CSE (AI & ML)

Dr. Shaik Abdul Nabi
Professor
HOD-CSE

Dr. S. Sai Satyanaraya Reddy
Patron
Principal & Prof. of CSE