Department Newsletter
First Half 2023

Artificial Intelligence Machine Learning Department

SIES Graduate School of Technology, Nerul

Dr. Varsha Patil

(HOD)

Artificial Intelligence Machine Learning Department

FROM THE HOD's DESK

Department of Artificial Intelligence Machine Learning of SIES GST started in the year 2022 offers undergraduate programmed in AI and Machine Learning where students are exposed to concepts AI and Machine Learning. The department aims to develop competent and socially responsible engineers in the domain of Artificial Intelligence & Machine Learning for noteworthy contributions to the society. The motive of department is to make student ready for industry with excellent practical exposure in AIML.

ARTIFICIAL INTELLIGENCE MACHINE LEARNING DEPARTMENT

SIES GRADUATE SCHOOL OF TECHNOLOGY, NERUL

VOLUME **1**, ISSUE **2**

MISSION

- To provide students with a comprehensive education to prepare them for the rigors in the domain of AI

- To establish a platform for academics, innovation, professional growth, and social interaction.

- To encourage the capacity for lifelong learning necessary for career advancement.

- To help build relationships with alumni and industry for the betterment of students' overall growth.

VISION

Impart prime content education to develop technically proficient and socially responsible engineers in the emerging branches of AI.

FACULTY PROFILE

No	Name	Qualification	Designation	Area of Interest
1.	Dr. Varsha Patil	B.E, M.E (CE), Ph.D	Associate Professor	Image Processing, Data Mining, Machine Learning, Natural Language Processing
2.	Ms. Sneha Tapre	B.E, M.E (CE)	Assistant Professor	Machine Learning, Data Structure
3.	Ms. Archana Arudkar	B.E (CSE), M.E (CE)	Assistant Professor	Database, Network & Security
4.	Ms. Jyoti Chavhan	B.E (CSE), M.E(CE), Ph.D*	Assistant Professor	Machine Learning, Natural Language Processing, Artificial Intelligence
5	Ms.Monali Deshmukh	B.E (CSE), M.E(CE)	Assistant Professor	Data Mining, Neural Network, Algorithms

NON TEACHING STAFF

No	Name
1.	Mr. Prasad Tambe

CLASS STRENGTH

Year	Total No of students	Boys	Girls
S. E.	69	52	17

FACULTY ACHIEVEMENTS

Paper Publications

- Dr. Varsha Patil has published paper titled, "Malware Detection " in International Journal of Digital Literacy and Digital Competence, 2023.

- Dr. Varsha Patil has published paper titled " Personality Prediction for CV Analysis " in International Journal of Digital Literacy and Digital Competence, 2023 .

- Dr. Varsha Patil has published paper titled " Deep Learning and Binary Representational Image Approach for Malware Detection " 2023 International Conference on Power, Instrumentation, Control and Computing (PICC) Online Paper Presentation.

- Dr. Varsha Patil has published paper titled " Malware Detection ", 1st International Conferenc on Recent Trends in Multidisciplinary Research and Innovation (ICRMIR-23), Online Paper Presentation International Journal of Digital Literacy and Digital Competence, 2023

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- Dr. Varsha Patil has published paper titled " Personality Prediction for CV Analysis ", 1 st International Conference on Recent Trends in Multidisciplinary Research and Innovation (ICRMIR-23), Online Paper Presentation International Journal of Digital Literacy and Digital Competence.

- Dr. Varsha Patil has published paper titled " Real-time Water Quality Management using IOT ", SAMRIDDHI, A Journal of Physical Sciences, Engineering and Technology,2023

- Dr. Varsha Patil has published paper titled " Fire And Smoke Detection System ", SAMRIDDHI, A Journal of Physical Sciences, Engineering and Technology,2023

- Dr. Varsha Patil has published paper titled "Plastic Picking Robot", SAMRIDDHI, A Journal of Physical Sciences, Engineering and Technology,2023

- Dr. Varsha Patil has published paper titled "Eye Disease Classification using Deep Neural Network", SAMRIDDHI A Journal of Physical Sciences, Engineering and Technology,2023

FACULTY ACHIEVEMENTS

Paper Publications

- Prof. Jyoti Chavhan has published paper titled "Optimizer effects on language models for hate speech detection in Dravidian text" published in JJTU Journal of Renewable Energy Exchange ISSN: 2321-1067 Volume 10 Issue 10 (2022), PP 21-27".

- Prof. Jyoti Chavhan has published paper titled "Communication Tool: Smart Hand Gloves for the Deaf People" published in JJTU Journal of Renewable Energy Exchange ISSN: 2321-1067 Volume 10 Issue 6 (2022), PP 93-97

FACULTY ACHIEVEMENTS

FDP

Dr. Varsha Patil, Prof. Archana Arudkar, Prof.Jyoti Chavhan, Prof. Monali Deshmukh participated in the 6 Days Faculty development Program On "AR/VR (Augmented / Virtual Reality), held during December 19th to 24th , 2023,Organized by SIES GST.

FACULTY ACHIEVEMENTS

Seminars/workshops attended by Faculty:

- Dr.Varsha Patil, Prof. Sneha Tapre, Prof. Archana Arudkar attended Workshop on "Django Framework" dated on 25th March 2023.

- Prof. Jyoti Chavhan, Prof. Archana Arudkar participated in the 6 Days Faculty development Program On " Blockchain and DLT " held during 2nd- 07th January 2023, Organized by Xavier Institute of Engineering, Mahim.

WORKSHOP ORGANIZED/ CONDUCTED

● Conducted Guest Lecture on "How to get Internship Opportunities?" on Feb 28, 2023, Total 81 students have attended the lecture

● Organized Workshop on "Android" organized for SE students on March 4 & 5, 2023

● Organized Workshop on "Django Framework" organized for SE students on March 25, 2023

Student Development Programs:

Dr. Varsha Patil, Prof. Archana Arudkar, Prof. Sneha Tapre conducted Value Added Course on " Advanced Python Libraries " with industry Resource person. (Mr. Yogesh Murumkar, Chief Executive Officer and Corporate Trainer, Bharat Soft Solutions) Organized by Department of AIML, SIESGST from June 26 –July 1, 2023.

STUDENT'S ACHIEVEMENTS

NO.	EVENT	NAME OF STUDENT	YEAR / SEM	ACHIEVEMENT (CURRICULAR, CO- CURRICULAR & EXTRA- CURRICULAR)
1	Baja SAE Indore (Sports)	Nikhil Patel	SE/IV	Sales:1st Prize
2	Mixed doubles ICT sports saga badminton Wadala sports club	Harsh Mogal	SE IV	**1**st prize
3	Group dance Pillai college TML group dance SIES GST	Vedika Mishra	SE IV	**1s**t Prize **1**st Prize
4	Box cricket Sies College of Management	Vedant kupekar	SE IV	**1**st Runner up

INTERNSHIP

Students are always proactively participating in the online and offline internship programs. College also provides internship opportunities through various student development programs on recent technologies. Internship is provided on Software Design Skills, Web Development Technologies.

NAME OF STUDENT	INTERNSHIP PROGRAMME
Chandana Shastri	Machine Learning & Data Science with Python: PHN Technology Pvt Ltd.
Aradhya Dange	Sunrise Infotech : Backend Developer
Kshitij Sunil Singh	Android Development :PHN Technology Pvt Ltd, Pune.
Shershasai Dusa	E-Commerce Medical Tech Agency Medrpha

STUDENT TOPPERS

S.E. - FIRST HALF 2023 (Semester IV)

Rank	Name of student	CGPI
1	ANUSHKA MANOJ BHARDE	9.33
2	UTEKAR SUYASH SMITA	9.13
3	NARALE UDAYRAJ	9.08
4	NIVEDHA N	9.35

Subject wise Topper

Sr. No.	Roll No.	Name of Student	Subject	Marks
1	121A9063	VEDIKA MISHRA	EM-IV	85
2	121A9015	DSOUZA KEEGAN	AOA	95
3	121A9051	SAYED NOOR ZAKIR	DBMS	89
4	121A9033	NARALE UDAYRAJ	OS	92
5	121A9033	NARALE UDAYRAJ	MP	65

DATA SCIENCE

Data Science, one of the leading fields in today's world in which extensive research and modernization is being carried out. In laymen language, as the word suggests, Data Science is basically using data and statistics for easing out the manual work. Data Science combines math and statistics, specialized programming, advanced analytics, artificial intelligence, and machine learning with specific subject matter expertise to uncover actionable insights hidden in an organization's data. These insights can be used to guide decision making and strategic planning.

In earlier times, lot of major decisions or future planning used to be decided by sheer instincts or just discussions or talks. However, some of these decisions used to be proved right, whereas most of them ended up on being the wrong side of the expected result. This is when people began to give importance to data and numbers. Lot of fields have started maintaining   records of whatsoever their concerned interests, and this is what statistics is all about. Making a systematic record of data and using it for future or current use is called as Statistics.

This statistic is very important in the field of Data Science. With the help of statistics one can predict about the future numbers if the same process is being followed.

Ever since the rise of Data Science, there have been many basic level software which were used for carrying out data science related work. However, with the rise of technology and new modernizations there have been many advanced software which have been developed. Nowadays every domain may it be technical or non-technical has this Data Science application in its field. This is when the role of Data Scientist comes into picture.

The position of Data Scientist is going to be one of the most sought-after positions in modern times, with a special position for Data Scientist is going to be kept by almost all leading fields and domains. Moving in further times, the use of applications of Data Science is going to increase furthermore with more new algorithms going to come into picture which is going to ease the human work even more.

Editor: Omkar Shivarkar

EDITORIAL BOARD

Prof. Sneha Tapre

Editorial Board:

- Dr. Varsha Patil [HOD]

- Prof. Sneha Tapre [Assistant Professor]

- Student Members: Omkar

Editorial board is glad to release the current issue of our Department Newsletter January 2023. We appreciate the efforts taken by the editorial board in compiling useful information & activities by department. The contribution and dedication of faculty members, students is continuously helping the newsletter in stepwise manner for achieving new milestone.

Newsletter divulge that the department is trying hard to achieve various dimensions such as academic, co-curricular and extra co-curricular activities.