DEPARTMENT OF CSM

A HALF-YEARLY NEWSLETTER

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ADITYA

Institute of Technology and Management

(An autonomous institution)

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Institute of Technology and Management

(An autonomous institution)

Department of CSM

Vision and Mission of the Institute

Vision

To evolve into a premier engineering institute in the country by continuously enhancing the range of our competencies, expanding the gamut of our activities and extending the frontiers of our operations.

Mission

Synergizing knowledge, technology and human resource, we impart the best quality education in Technology and Management. In the process, we make education more objective so that efficiency for employability increases on a continued basis.

Vision and Mission of the Department

Vision

To develop competent and socially responsible engineers in the domain of ArtificialIntelligence & Machine Learning, Data Science for noteworthy contributions to the society.

Mission

M1. To educate the students in fundamental principles of computing and develop the skills needed to solve practical problems using contemporary computer-based technologies.

M2. To provide State-of-the-art computing laboratory facilities to promote industry-institute interaction to enhance student's practical knowledge.

M3. To inculcate self-learning abilities, team spirit, and professional ethics among the students to serve society.

Chairman's Message



At AITAM, we are committed to excellence in everything we do. We strive to mould the students in balancing intellectual and practical skills to become leaders in all the fields of Technical know-how and Management. We have created the finest facilities for the students to make the most of their scholastic pursuits. We are closely aligned with the corporate world which ensures exchange of ideas and experiences that keep our curricula focused on current developments and challenges in the field of engineering. We are firmly committed to research and consulting activities to contribute to the development of the discipline of engineering. Our vitality lies in our spirit of innovation. Our strength lies in our pragmatic approach. Our success lies in our will to do.

Dr. K. Someswara Rao
CHAIRMAN

Secretary's Message



Aditya Institute of Technology and Management is founded to meet the increasing demand for competent engineering graduates. Within a short span of its inception, AITAM has grown to be a premier engineering college of its kind and has won laurels and kudos from the industry. The faculty and staff in AITAM are dedicated to providing first-class education that instills strong and potent basic knowledge for sound practice in science and engineering for the well-being of the society. The Institute offers curricula that nurtures creative thinking and prepares students for productive and rewarding careers. The Institute offers programmes that deepen learning experiences of our students and prepare them for successful careers as engineers.

Sri L.L. Naidu
SECRETARY

Director's Message



Engineering education at AITAM is indeed a rewarding intellectual experience. The Institute prepares the engineering professionals of tomorrow imbued with insight, imagination and ingenuity to flourish as successful engineers. Our programs are attuned to the needs of the changing times. The classrooms are ultra-modern; the library and labs are cutting-edge; and all the members of the faculty are workaholic professionals and masters in their fields. Not surprisingly, our students are recruited by such renowned organizations as HCL, Satyam, WIPRO, INFOSYS, TCS, Visual Soft, Innova-Solutions and InfoTech. The exceptional dedication of our students, faculty and staff, and our collaborations with Industry and other institutions ensure that the Institute is well-poised to create a unique niche in the horizons of engineering education.

Prof. V.V. Nageswara Rao
DIRECTOR

Principal's Message



It is only through knowledge that man attains immortality. Knowledge has to expand or grow to remain as knowledge. The road to excellence is toughest, roughest and steepest in the Universe. The world requires and honors only excellence. Available information has to be directed by wisdom and intelligence to create new knowledge. Promotion of creativity is the new role of education. It is only through creative thinking that the present and future problems can be addressed to find dynamic solutions. Technology should be used to help remove poverty from the world. In fact forty per cent of the world's poor are in India. Confidence leads to capacity. It is faith in oneself that produces miracles. Education at AITAM helps build character, strengthen the mind, expand the intellect and establish a culture of looking at problems in a new perspective. The student is put through rigorous training so that he can stand on his own feet after leaving the portals of the Institute.

Dr.A.S.Srinivasarao
PRINCIPAL

HOD's Message



The Department of **CSM** strongly committed to impart innovative and quality technical education with high standards. The field of Artificial Intelligence & Machine Learning is a diverse field which has a significant role in the development of cutting edge technology. The faculty of the department is committed to prepare our students by providing the expertise and proficiency in Artificial Intelligence and its related fields needed to thrive in modern society. ML has become a fundamental tool for augmenting the human knowledge, which is an essential part of creation, discovery and innovation. The main goal of the Department is to provide experimental learning opportunities such as hands-on training, project-based courses, research projects and internships which provide a solid foundation to work in interdisciplinary teams that invent the future. The curriculum at the Department of AI&ML at is meticulously planned and continuously updated in way to incorporate the various demands of the IT industry trends. An exposure to real world problems in this era of technology is a must and the every candidate is provided with the right environment to shape into a confident individual having the necessary skill set to fit in any role at the industrial market.

Dr.M.V.B ChandraSekhar

HOD of CSM Department

Conferences Attended:

Performance Improvement of Machine Learning Algorithms Through Information-Theoretic Class Based Feature Multicorrelation Enabled Feature Selection for Cervical Cancer Prediction

Kurman Sangeeta, Sumitra Kisan, Kalyana Kiran Kumar, Pradeep Kumar Mahapatro

Abstract

Selection of most informative features has found to be a great utility in minimizing the dimensions of high dimensional data and thereby on increasing the learning efficiency of learning algorithms. The majority of attribute selection methods ignored the consideration of feature multi-correlation such as feature complementarity and interaction correlation. Also there is less research on influence of feature selection algorithms on performance improvement of machine learning algorithms for cervical cancer risk factor dataset. Motivated by this, we performed experiments by applying information theoretic based feature selection algorithms that considers class based feature multicorrelation on cervical cancer dataset. We considered eight different machine learning algorithms (MLA) for performance comparison and analysis in our research. The feature selection algorithms considered for this research are DISR, R2CI, DRJMIM, DWFS, IWFS and UCRFS. The metrics used for MLA comparison are accuracy, precision, recall, confusion matrix and auc. The findings illustrate the significance of DRJMIM feature classification technique and RandomForest classifier for cervical cancer prediction. RandomForest classifier shows highest classification accuracy of 98.55% after applying DRJMIM FSA.

FACULTY DEVELOPMENT PROGRAMME/WORKSHOPSATTENDED

S.No.	Name of The Faculty	Name of The Programme	Dates	Venue
1	Smt. K.Srinivasa Rao	FDP on"Smart IoT Solutions: Machine Learning, Quantum Computing, and the Cloud Ecosystem, A Hands-on approach",	10th to 14th January 2025.	organized by CS&AI SR University,Warangal

STUDENT ACHIEVEMENTS

S.NO	Regd.No	Name of The Student	Course Name	NPTEL Certificate Type
1	22A51A4277	SAMPATH BONUMADDI	Programming in Java	ELITE Jan-Apr 2024
2	22A51A4277	SAMPATH BONUMADDI	Data Structure and Algorithms using Java	ELITEJul-Oct 2024
3	22A51A4278	SURAVARAPU VEDIKA	Introduction to Machine Learning	Successfully CompletedJuly-Oct 2024
4	22A51A4283	DAMARASINGU SATYA VENKATA SIDDHARDHA	Pyhon With Data Structures	Successfully Completed-July-Sep-2024
5	22A51A42A2	DUNGALA GANESH	Cyber Security And Privacy	July-Oct-2024 ELITE
6	22A51A42A2	DUNGALA GANESH	Privacy&Security in Social Media	ELITE Jan-Apr 2025
7	22A51A42B9	B.Laxmi Prasanna	Introduction to Machine Learning	Successfully CompletedJan-Apr 2025
Jan-Apr 2025				
1	21A51A4201	KISHOR ANGA	Deep Learning for Natural Language Processing	Successfully Completed
2	21A51A4204	BALIVADA VENKATA SHRMILA	Deep Learning	ELITE

3	21A51A4205	GURANA PRAVALLIKA	Introduction to Machine Learning	Successfully Completed
4	21A51A4206	BANNA YOGESWARA RAO	Deep Learning	Successfully Completed
5	21A51A4207	KILLAMSETTY GANGOTRI	Introduction to Machine Learning	Successfully Completed
6	21A51A4208	ITHIREDDY VIGNESWARI	Deep Learning	Successfully Completed
7	21A51A4209	SAVIRIGANA INUSHA	Introduction to Machine Learning	Successfully Completed
8	21A51A4211	CHODI SAI KISHORE	Deep Learning for Natural Language Processing	Successfully Completed
9	21A51A4212	MARPU RASHMITHA	Deep Learning	Successfully Completed
10	21A51A4213	HANUMANTHU HARIKA		ELITE
11	21A51A4216	ANDALURI SUJAN	Deep Learning	Successfully Completed
12	21A51A4218	RUPPA PREMENDRIKA	Deep Learning	Successfully Completed
13	21A51A4221	ROSUVA MEGHANA	Deep Learning	Successfully Completed
14	21A51A4227	PANUKU SAIRAM	Deep Learning for Natural Language Processing	Successfully Completed
15	21A51A4243	BODIGI SAIKARTHIK	Deep Learning	Successfully Completed
16	21A51A4244	BALAKA RAMJEE	Introduction to Machine Learning	ELITE
17	21A51A4245	KANCHUMOJULOHITHKUMAR	Introduction to Machine Learning	Successfully Completed
18	21A51A4248	NANUBOLU BHAVANA	Introduction to Machine Learning	ELITE
19	21A51A4251	PREM KUMAR YAJJALA	Deep Learning	Successfully Completed
20	21A51A4254	BARATAM VENKATA MANOJ	Introduction to Machine Learning	Successfully Completed

21	21A51A4257	YAMALA SASI REKHA	Deep Learning	Successfully Completed
22	21A51A4258	TANDASA UDITA	Introduction to Machine Learning	Successfully Completed
23	21A51A4263	MARRAPU JAHNAVI	Machine Learning for Engineering and science applications	ELITE
24	22A55A4201	NAMANA VENKATA SAI PRABHASH	Machine Learning for Engineering and science applications	Successfully Completed
25	22A55A4205	DEVARASETTI JAGATH SAI	Machine Learning for Engineering and science applications	Successfully Completed
26	22A51A4283	DUGGIVALASA PRAGATHI	Deep Learning	ELITE -Jan-Apr 2025
27	22A51A4285	GANDIVALASA CHETANA	Introduction to Machine Learning	Successfully Completed-Jan-Apr-2025
28	22A51A42B0	DEVIPRIYA PILLATI	Introduction to Machine Learning	Successfully Completed-Jan-Apr 2025
29	22A51A4280	CHANDRAGIRI DEVARAJ	Privacy and Security in Online Social Media	ELITEJ-Jan-Apr 2025
30	22A51A4280	CHANDRAGIRI DEVARAJ	Blockchain and its Applications	ELITEJ-Jan-Apr 2025
31	22A51A4280	CHANDRAGIRI DEVARAJ	Introduction to Machine Learning	Successfully Completed-Jan-Apr 2025
32	22A51A4291	KILLAMSETTY RESHMA	Joy of Computing with Python	Successfully Completed-Jan-Apr 2025



This is to inform you that our 👆 IV CSM students (Sai Srinivas, Pramod, SriRaj) participated in go-karting championship at SRKR Engineering College, Bhimavaram and got1st prize in "cost report".On behalf of CSM Department we congratulate them 🌷🌷🌷🌷🌷🌷🌷🌷🌷🌷🌷🌷🌷🌷



Our 👆 III CSM students K.Sravanthi and L.Ekshitha got 1st and 2nd prize in Essay Writing competition held at JNTUGV, Vizianagaram. Today they received prizes from Honourable VC of JNTUGV.



Our 👆 III CSM Student Mr.K.Kranthi Kiran(III CSM-A, 22A51A4227) addressed at GMRIT on "Unisys Innovation Program 2025 and is inviting innovative ideas from students across India" on 24-Jan-2025. On behalf of CSM Department we congratulate him 👏👏👏👏👏👏👏👏👏👏👏👏👏







Reddy Mallidi Says Last week, I had the privilege of speaking at ***Aditya Institute of Technology and Management*** *(AITAM) —a premier engineering and management institute in a remote part of the state of Andhra Pradesh, India. The energy in the room was electric as I engaged with* ***250+ students and 50+ faculty*** *members on preparing for an* ***AI-driven future****.* ***Highlights from the session****:*

✔ *AI Trends & Opportunities: Explored the explosive growth of the global AI market (projected to reach $1.8 T by 2030) and how Gen AI is revolutionizing industries—from saving $30M annually in invoice processing to enabling real-time fraud detection.*

✔ *AI in Action: Shared practical applications across operations, finance, sales, and marketing, and emerging roles like AI Prompt Engineers and Ethics Consultants.*

✔ *Q&A Insights: The students' curiosity blew me away! We extended the planned 15-minute Q&A to 45 minutes (and still ran out of time), diving deep into AI's specific applications, challenges, human AI co-existence*

Editorial Board

Faculty

Sri.Srinivasa Rao Konni

Students

Ch.Devaraj 22A51A4280

D.Ganesh 22A51A42A2

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