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K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

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<u>Event name</u>	: Techsaksham
<u>Date of Event</u>	: 17-02-2025 to 01-03-2025
<u>Venue</u>	: CSE lab, Alpha-Delta Seminar Hall, Dept. of AI & DS,
<u>Number of participants</u>	133
<u>Targeted Audience</u>	: VI Semester, Dept. of CSE
<u>Objective</u>	: To enhance skills of students




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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
Is Organising a Workshop on



APPLIED ARTIFICIAL INTELLIGENCE - PRACTICAL IMPLEMENTATION

In Association with
DEPARTMENTS OF CSE, CSBS, AND ECE



EDUNET FOUNDATION

Program Sponsors



Trainers

Medini BV - Master Trainer
Adarsh P - Master Trainer
P Raja - Master Trainer

DATES: 17 Feb, 2025 - 01 Mar, 2025 | **TIMINGS:** 09:30 am - 04:00pm
VENUE: AD Seminar Hall, CSBS Lab, CSE Lab



IEEE

IEEE BANGALORE SECTION



IEEE COMPUTER SOCIETY



IEEE Sensors Council



IEEE Education Society



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD initiative)



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Department of Computer Science and Engineering organized workshop on “Applied Artificial Intelligence” for VI Semester students. It was conducted by Edunet Foundation sponsored by Microsoft and SAP.

Resource Person: Adarsh P and P Raja

Feedback: Feedback from students’ is positive

Glimpses of Expert Talk:

Day 1

Topic Covered: Introduction to Machine Learning

Subtopics: Basics of ML, Supervised vs Unsupervised Learning

Activities:

- - Data preprocessing and feature selection
- - Built a basic classification model using Scikit-learn

Outcome: Understood the foundations of ML and implemented a simple supervised model

Day 2

Topic Covered: Supervised Machine Learning Techniques

Subtopics: Linear Regression, Logistic Regression

Activities:

- - Performed Vehicle Performance Analysis using Linear Regression
- - Evaluated using MSE and RMSE

Outcome: Learned how regression models work and their evaluation

Day 3

Topic Covered: Classification Algorithms

Subtopics: Support Vector Machine (SVM), Decision Trees

Activities:

- - Built classification models using real-world datasets
- - Evaluated models with confusion matrix and accuracy

Outcome: Gained hands-on experience with decision-based and margin-based classifiers



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Day 4

Topic Covered: Evaluation Metrics & ML Pipelines

Subtopics: Model validation techniques, Accuracy, Precision, Recall

Activities:

- - Developed an End-to-End Diabetes Prediction Model
- - Deployed using Streamlit

Outcome: Understood full ML workflow from training to deployment.

Day 5

Topic Covered: Artificial Neural Networks (ANN)

Subtopics: ANN Architecture, Forward & Backward Propagation, Activation Functions

Activities:

- - Implemented Customer Churn Prediction using ANN
- - Used ReLU, Sigmoid, SoftMax in model layers

Outcome: Built and tuned a neural network for classification tasks

Day 6

Topic Covered: Optimization Techniques in Deep Learning

Subtopics: Gradient Descent, Adam Optimizer

Activities:

- - Applied optimization methods to improve ANN training

Outcome: Improved training speed and model accuracy



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Day 7

Topic Covered: Convolutional Neural Networks (CNN)

Subtopics: CNN Architecture, Feature Maps, Pooling

Activities:

- - Developed Potato Leaf Disease Detection system using CNN
- - Deployed via Streamlit

Outcome: Understood image processing and real-time deployment

Day 8

Topic Covered: Natural Language Processing (NLP)

Subtopics: Tokenization, Lemmatization, Stemming, Word Embeddings

Activities:

- - Worked on Kindle Review Sentiment Analysis
- - Used One-Hot Encoding, Bag of Words, TF-IDF

Outcome: Learned multiple vectorization techniques and sentiment classification

Day 9

Topic Covered: Advanced NLP & Generative AI

Subtopics: Summarization Techniques, API-based NLP Integration

Activities:

- - Built PDF Summarizer using Google Gemini API, FSSAI context

Outcome: Applied generative AI to extract summaries from documents



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Day 10

Topic Covered: Vector Databases & Semantic

Search Subtopics: Chroma DB, Vector Embeddings

Activities:

- - Implemented Chroma DB for semantic document retrieval

Outcome: Learned to handle unstructured text using vector-based search

Day 11

Topic Covered: Final Project Presentation

Subtopics:

Activities:

- - Presented capstone projects covering all learned concepts
- - Received feedback and evaluation from mentors and peers

Outcome: Successfully demonstrated practical applications of AI across domains

Regional Project Showcase – Achievements

On 25th March, students from KSSEM participated in the Regional Project Showcase held at Government Engineering College, Hassan.

From our college, 11 teams were selected, including 6 from the Computer Science Department:

- - Sanjay M D and Team – WanderWISE
- - Bhoomika P Desai and Team – SentiFly – Sentiment Analysis of Indian Airline Reviews
- - D Shreyas and Team – Disaster Management – Lack of Proper Response and Relay Mechanisms
- - Pavan and Team – Crop Yield Prediction
- - Padmashree M and Team – Chatbot for Educational Institution
- - Rushitha and Team – Research Paper Analyser



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ACHIEVEMENTS AT THE EVENT:

□ First Place: Sanjay M D and Team



□ First Runner-Up: Rushitha and Team



These achievements reflect the dedication, knowledge, and skills gained during the training sessions and the ability to apply AI concepts to solve real-world problems.



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Few Images of the Event





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Faculty Incharge


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