



For Further Details :

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RESOURCE PERSON

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**“ INNOVATIVE DATA
SCIENCE WITH ARTIFICIAL
INTELLIGENCE “**

**Department of Computer
Science and Engineering (ADS)**



2024 AUGUST 21 - 25

**VIMAL JYOTHI ENGINEERING
COLLEGE, CHEMPERI**

LESSON PLAN

DAY 1 : 21-08-2024

Introduction to Data Science and AI

- Introduction to the basic concepts of Data Science and AI
- Data & it's uses
- Stage Of Analytics
- Data science project workflow
- Applications of data science



DAY 2 : 22-08-2024

Data Wrangling and Visualization

- Basics of visualization
- Feature engineering on text data
- Feature scaling
- Feature selection techniques

LESSON PLAN

DAY 3 : 23-08-2024

Introduction to Machine Learning

- ML introduction-ML VS AI-AI VS ML VS DL
- Machine learning algorithms
- Unsupervised learning
- Supervised algorithm / regression

DAY 4 : 24-08-2024

Deep Learning and Neural Networks

- Introduction to Deep Learning.
- Introduction to ANN, CNN and RNN - Multi-Layered Perceptron (MLP)
- Activation functions-Back Propagation
- Building a linear regression model
- Implementing a classification model.
- Evaluating models using cross-validation and performance metrics.

LESSON PLAN



DAY 5 : 25-08-2024

AI in Practice and Future Trends

- Practical experience in applying AI techniques to a real-world problem
- Implementing an RNN using TensorFlow/Keras
- Training the RNN on sequential data
- Using pre-trained models for various tasks.

TIME SCHEDULE

- 21 -23 August - Offline
- 24-25 August - Online