

## For Further Details:

### **Coordinators:**

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#### Convener:

Dr. Manoj . V. Thomas
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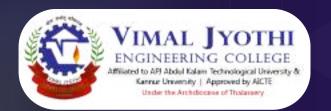
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Mr. Rakhil Dev P

Data Scientist

Dataspark Analytics LLP



# "INNOVATIVE DATA SCIENCE WITH ARTIFICIAL INTELLIGENCE"

Department of Computer
Science and Engineering (ADS)



2024 AUGUST 21 - 25

VIMAL JYOTHI ENGINEERING
COLLEGE, CHEMPERI

# **LESSON PLAN**

DAY1: 21-08-2024

#### Introduction to Data Science and Al

- 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 DI
- 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 crossvalidation and performance metrics.

# **LESSON PLAN**



DAY 5: 25-08-2024

#### Al 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