



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

*(Accredited by NBA)*



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**UNIVERSITY COLLEGE OF ENGINEERING JAGTIAL**

Nachupally (Kondagattu), Kodimial Mandal, Jagtial Dist.-505 501, TS (India)

### **A Ten Days Workshop**

**on**

### **“MACHINE LEARNING USING PYTHON PROGRAMMING”**

## **Schedule**

| <b>Day#</b>         | <b>Date</b>               | <b>Time</b>                      | <b>Topics</b>  |
|---------------------|---------------------------|----------------------------------|--|
| Day-1               | 20-08-2024<br>(Tuesday)   | 02:00PM to 05:00PM               | Introduction to Python Hands on -<br>Basic of Python   |
| Day-2               | 21-08-2024<br>(Wednesday) | 02:00PM to 05:00PM               | Introduction to Machine Learning Types<br>of Machine Learning Building a Machine<br>learning model |
| Day-3               | 22-08-2024<br>(Thursday)  | 02:00PM to 05:00PM               | Data Preprocessing Correlation analysis<br>in Python   |
| Day 4               | 23-08-2024<br>(Friday)    | 02:00PM to 05:00PM               | Linear Regression Practical<br>Implementation  |
| Day 5<br>(Full day) | 24-08-2024<br>(Saturday)  | Forenoon:<br>10:00AM to 01:00PM  | Introduction to Classification algorithms:<br>Logistic Regression                                  |
|                     |                           | Afternoon:<br>02:00PM to 05:00PM | KNN, Comparison of all three models  |
| Day 6<br>(Full day) | 25-08-2024<br>(Sunday)    | Forenoon:<br>10:00AM to 01:00PM  | Simple Decision Trees, Plotting Decision tree<br>in Python   |
|                     |                           | Afternoon:<br>02:00PM to 05:00PM | Random Forest, Plotting Random Forest in<br>Python   |
| Day 7<br>(Full day) | 26-08-2024<br>(Monday)    | Forenoon:<br>10:00AM to 01:00PM  | Open CV Library, Hands on  |
|                     |                           | Afternoon:<br>02:00PM to 05:00PM | SVM, Plotting SVM in Python<br>Quiz followed by Feedback session                                   |
| Day 8               | 27-08-2024<br>(Tuesday)   | 02:00PM to 05:00PM               | K-means, Plotting K-Means in Python  |
| Day 9               | 28-08-2024<br>(Wednesday) | 02:00PM to 05:00PM               | Time -series Analysis using Python   |
| Day 10              | 29-08-2024<br>(Thursday)  | 02:00PM to 06:00PM               | Introduction to Tensor Flow  |
|                     |                           |                                  | Implementing using Tensor Flow   |
|                     |                           |                                  | Quiz followed by Feedback session  |

**HOD, CSE**