COURSE CONTENTS ARTIFICIAL INTELLIGENCE & MACHINE LEARNING (15 DAYS)

MODULES	CONTENTS
DAY1	 INTRODUCTION What is Artificial Intelligence & Machine Learning Application of AI & ML Introduction to Machine Learning Types of Machine Learning Introduction to Anaconda Environment, installation, Introduction to Python
DAY 2	PYTHON FUNDAMENTAL Python Basics String Functions Arithmetic Operators Comparison Operator Python List, Python Dictionary If else structure, For loop, While loop
DAY3	 Functions, Object oriented Programming Python Packages for Machine Learning Numpy
DAY 4 & 5	 PANDAS, Data cleaning MATPLOTLIB, SEABORN Data Analysis on different data set
DAY 6	 Linear Regression Concept of R2 score, Mean square error Case studies on linear regression
DAY 7	 Classification problem Logistic Regression Confusion Matrix, Precision, Recall Support Vector Machines Algorithm to solve Supervised Learning Problem Practice on Case Studies
DAY 8	 Navier Bayes Algorithm KNN Algorithm Case Studies

DAY 9	 KMeans Clustering Anomaly Detection Algorithm to solve Unsupervised Learning problems Case Studies Introduction to Computer Vision Image Processing Understanding colour maps
DAY 10	 Feature Extraction Gaussian blurr Canny edge detection Image segmentation Line detection-Hough Transform Harcaascade classifier
DAY 11	 Introduction to Artificial Neural Networks Single layer perceptron Multi layer Perceptron Introduction to Keras Feed forward process, back propagation, error function Regression and classification problem using Keras.
DAY 12	 MNIST image recognition Convolutional neural network architecture Convolutional layer, pooling layer, fully connected layer
DAY 13 & 14	 Classifying road symbols Augmentation technique Project of self driving car
DAY 15	 Introduction to Natural Language Processing Textblob, predefined functions of NLTK Vectorizer Developing Chatbot Case studies