Machine Learning

Content Outline

Workshop Content

Session 1
Introduction of Machine Learning

Introduction of Artificial Intelligence and Machine Learning
Brief introduction to Machine Learning for AI
Classification of Machine Learning
Difference between Machine Learning and Artificial Intelligence
Machine Learning Techniques
Types of Learning
Machine Learning System Design
Supervised Learning- Regression
Classification
Future scope, Machine Learning & Artificial Intelligence

Session 2
Learning Algorithms

Regression
Naive Bayes Classification
Backpropagation
Logistic Regression
Support Vector Machines (SVM)
Random Forest
Decision Tree
K-Nearest Neighbors (KNN)
K-Means Clustering

Session 3
Python / Anaconda

Introduction to Python and Anaconda
Conditional Statements
Looping, Control Statements
Lists, Tuple ,Dictionaries
String Manipulation
Functions
Installing Packages
Introduction of Various Tool
Introduction of Anaconda
Working on Spyder ,Jupyter Notebook

Session 4
Working on Various Python Library
Installing library and packages for machine learning and data science
Matplotlib
Scipy and Numpy
Pandas
IPython toolkit
Scikit-learn

Session 5
Introduction of OpenCv
Installing Opencv library
Introduction of Opencv and its function
Reading and Writing Image and Video
Creating Different Shape
Introduction of Haar-Casecade Classifier
Working with images and videos

List of Projects / Practicals
Hand-written Recognition
Gender Classification
Simple Spam-Detecting Machine Learning Classifier
Predict whether a loan applicant was likely to pay back their loan.
Stock Market Data Analysis
House Price Prediction using Regression
Phishing Website Classification
ODI Score Predictor
Working With IRSI/Titanic Data Set
Classification of Solar Flares
Animal Classification
Car-Number Plate Detection
Face Detection /Eye Detection
Working with wine Data Set
Breast Cancer Wisconsin (Diagnostic) Classification

Prerequisites & Eligibility

- This is a basic level workshop and anybody is eligible to join this workshop however knowledge of Python will be beneficial.
- The course and curriculum of this workshop is more inclined towards computer science /statistics and anybody having an email address and know how to open website in browser is eligible to join this workshop.
- Participants are expected to bring their laptop (Windows Platform) atleast one in a group of 2/3 for better understanding of practical session in the workshop. (if required)
- Mode of Training/Teaching will be English only.
- Provisioning of Internet to participants is subject to hosting college, so it will be better if participants come with their internet dongle during workshop.

Workshop Fees, Certification & Other Deliverables

- Fees: Rs. 1250 per participant
- Every participant will be provided with certification from Blitzschlag'19 MNIT Jaipur & EISystems Services.
- Internship Vouchers by EISystems

Date & Duration of Workshop

- Dates : 1st & 2nd of February 2019 (Around 7 hours per day)
- Venue : MNIT Jaipur
- Accomodation assistance available.

Contact Us

We ensure that you will find our training programs extremely beneficial for your students. If you have any queries kindly get back to us. We are looking forward to a quick and positive response from you and a long term association with your esteemed organization.

Thanks & Regards,

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Note:
Important: Course & Structure of Workshop may subject to change without any notification to host institution.

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