Digital Lync

EDUCATION - INNOVATION - INCUBATION

DATA SCIENCE

COURSE CURRICULUM

✅ **Foundations :--------------10 hours**

Statistics

MCT

Dispersion

Scatter plot

Box whisker plot

Stem & Leaf plot

Qualitative ideas of

Statistical sampling & inference

Hypothesis Testing & t-tests

Prerequisites of above ideas(qualitative)

Terms , Terminology & Notions of Linear Algebra Relevant

to DataScience , including Probability

✅ **Module 2 :End-to End Machine Learning Practice--------- 10 Hours**

PipeLine ideas

EDA

Feature Creation

Evaluation Measures

Data Analytics Cycle ideas

Data Acquisition

Data Preparation

Data cleaning

Data Visualization

Respective Performance measures

Different Errors

Parameter Tuning

Ensemble Methods

Module 3 : Supervised Learning ————— 15 Hours

Classification methods

K-nn

Naive Bayes

SVM

Decision trees

Regression

Linear Regression

Logistic Regression

Unsupervised learning

Clustering

K means

Association Rules(market basket analysis)

Elementary Ideas of Time series

Text Analytics

NLP

TF-IDF

Sentiment Analysis

Recommender Systems

User based

Graph based

Pattern based

Random forests

✅ Module 6 : Neural Networks & Deep Learning & Technologies ---- 15 Hours

Overview of

  TensorFlow

  Keras

  theano

Introduction ANN

Training Deep neural nets

Convolutional NeuralNets

Recurrent neural nets

AutoEncoders

Reinforcement Learning

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HEADQUARTERS

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