

## PRE PREPARATORY CONTENT

INTRODUCTION TO PYTHON FOR DATA ANALYSIS

[PYTHON](#) FOR DATA SCIENCE

MATH FOR MACHINE LEARNING

DATA VISUALISATION IN PYTHON

DATA ANALYSIS USING [SQL](#)

ADVANCED SQL

## STATISTICS ESSENTIAL

ANALYTICS PROBLEM SOLVING

INVESTMENT ASSIGNMENT

INFERENTIAL STATISTICS

HYPOTHESIS TESTING

EXPLORATORY DATA ANALYSIS

GROUP PROJECT

## MACHINE LEARNING – 1

[LINEAR REGRESSION](#)

LINEAR REGRESSION ASSIGNMENT

LOGISTIC REGRESSION

NAIVE BAYES

MODEL SELECTION

## MACHINE LEARNING – II

ADVANCED REGRESSION

SUPPORT VECTOR MACHINE (OPTIONAL)

TREE MODELS

MODEL SELECTION - PRACTICAL CONSIDERATIONS

BOOSTING

UNSUPERVISED LEARNING: CLUSTERING

UNSUPERVISED LEARNING: PRINCIPAL COMPONENT ANALYSIS

## Natural Language Processing

LEXICAL PROCESSING

SYNTACTIC PROCESSING

SYNTACTIC PROCESSING-ASSIGNMENT

SEMANTIC PROCESSING

BUILDING CHATBOTS WITH RASA

**FYI:** [Free nlp course!](#)

## Deep Learning

INTRODUCTION TO [NEURAL NETWORKS](#)

SYNTACTIC PROCESSING

NEURAL NETWORKS – ASSIGNMENT

CONVOLUTIONAL NEURAL NETWORKS -INDUSTRY  
APPLICATIONS

RECURRENT NEURAL NETWORKS

NEURAL NETWORKS PROJECT-GESTURE RECOGNITION

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## REINFORCEMENT LEARNING

CLASSICAL REINFORCEMENT LEARNING

ASSIGNMENT -CLASSICAL

DEEP REINFORCEMENT LEARNING

REINFORCEMENT LEARNING PROJECT

## CAPSTONE

DEPLOYMENT

CAPSTONE