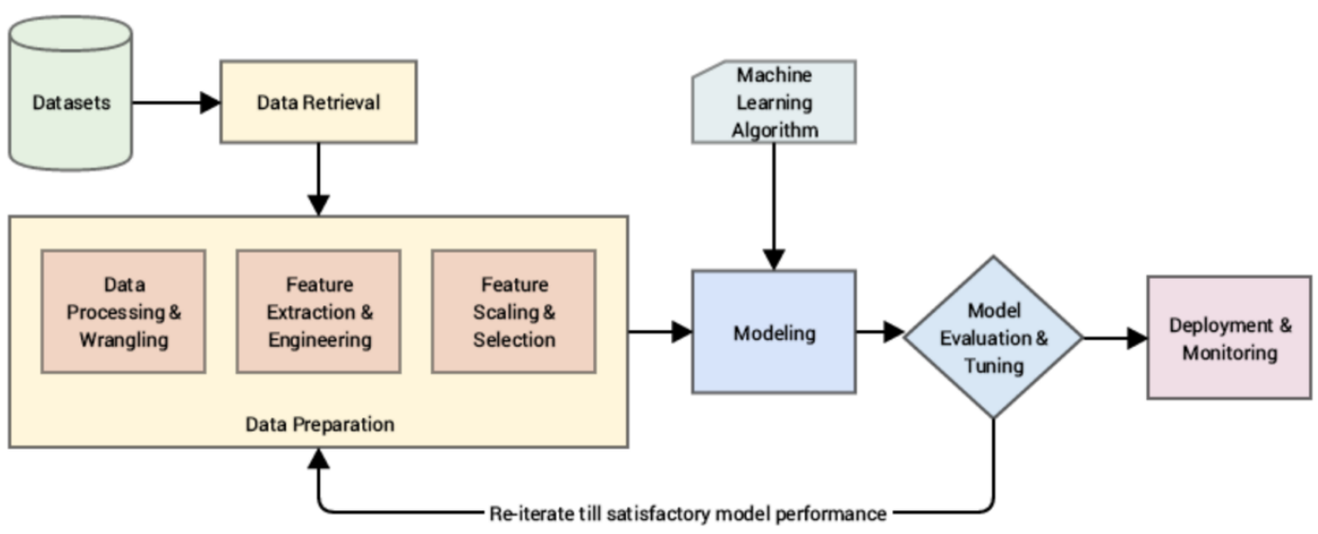
course schedule

Week 1. Feature Engineering & model Building [Including EDA]
Week 2. Machine Learning project [Including Deployment, Dockerization]
Week 3. End to end NLP Project with Web Application
Week 4. Deep Learning Project.
Week 5. Python Project

Agenda Day - 1

1. Machine Learnring Life Cycle Discussion
2. Understanding the Problem Statement
3. Data Exploration
4. Exploratory Data analysis (To find the insights from the data)
5. Feature Engineering

Machine Learning Pipeline



1. Understanding about Problem statement & Dataset
2. Import Datasets (Local system, Database, Cloud or Third part API)
3. Data Cleaning
4. EDA & Visualization
5. Data preprocessing & Feature Engineering
6. Model Traning
7. Predicting and Deployment

Data Cleaning Steps
1. Remove Duplicate Data
2. Handle Missing Values
3. Filter out Unwanted Outliers & many more based on your data

Handle Missing Data

1. Delete missingle Data
2. Impute missing Data with mean/mode/median
3. Assigning a Unique Category
4. Predicting The Missing Values
5. Using Algo which is Support Vector machine

Missing at Random
Missing Completely as Random (MCAR)
Missing Not at Random

Handle Outliers Data

1. Standard Deviation Method
2. Interquartile Range Method (IQR)
3. Percentile capping
4. Standard Deviation Method

Handling Implanced Data

1. Oversampling
2. Undersampling
3. Ensemble Sampling