**Lesson 1 -**

* I learnt how to install jupyter notebook.
* I learnt how to create list and basic operation of list   
  like add item , remove item or delete a list.

**Lesson 2 -**

* Learnt the history of python and learn how to use jupyter notebook and learn about notebook web applications,kernals,notebook documents.
* Learn python syntax and how to write comment , indentation,multiline statement.
* Learn about python basics like variables,string and various operation on string.
* Learn about the operators and numerical types and control flows like conditional statement and loop statement.

**Lesson 3**

* Learn data structure in python like list,tuple,range,test sequence type,binary sequence type.
* Learn about copy package.
* Learn methods and functions of data structure like slicing list, update dictionary, zip function etc.
* Learn File I/o operations like read,write,append.
* Learn how to store csv fle data and how to perform in csv file like read,write operation.

**Lesson 4**

* Watched video and learn linear algebra concept.
* Learnt numpy library .
* Learnt Ufuncs.
* Learnt Arithmatic operations in numpy.
* Learnt Trignometric functions.
* Learnt Logarithmic functions.
* Learnt Aggregation

Learnt sum

Learnt max and min

Learnt standard deviation

**Lesson 5**

* In this I learnt about Matplotlib library for plotting graph
* Learnt about pyplot .

Learnt about plotting prepararation.

Learnt about plotting functions.

Learnt about plot modifier.

* Learnt about various types of plot like scatter plots,Bar plots,pie charts,histograms.

**Lesson 6**

* In this I learnt about pandas library.
* Learnt series and dataframes .
* Learnt how to use numpy functions on dataframe.
* Learnt EDA

**Lesson 7**

* Learnt Hypothesis testing and statistical testing .
* Learnt Data visualization.

**Phase 1:**

**Week 1:**

* Learnt EDA
* Performed eda on data and done data cleaning, preprocessing and hypothetical testing

**Week 2 :**

* Learnt pearson correlation coefficient ang regression algorithms
* Learnt PCA and dimensity reduction
* Learnt ks test both one trailed and two trailed

**Week 3 :**

* Learnt about data visulazation using matplot and seaborn plotting various graph like pie charts,heatmap etc.
* Learnt visulazation through tableu.
* Created dashboad using tableau.

**Week 4:**

* Learnt about time series predection.
* Learnt Linear,Logistic regression.
* Learnt about dision tree and random forest algorithms

**Phase 2:**

* Worked on fake news detection and perform analysis in fake news data.
* In this data set I have perform to detect fake news.
* In this I learnt TfidfVectorization It is the combination of TF(Term Frequency) and IDF (Inverse Document Frequency).

TfidVectorization converts a colletion of raw document into a matrix of TF-IDF feature.