Assignment - 3

- **Title:** - write python code for that loads any dataset
  & plot the graph
- **Problem stmt:** - write Python code that loads any dataset
  & plote the graph.

- **Theory:** -
  Steps in the Data science process, we have already
  seen a simple linear form of data science process,
  including five distinct activities that depend on
  each other, let's summarize each activity further
  before we go into the details of each. Acquire.
  includes anything that matter us retrieve data
  including.

1. **Step 1 Acquiring Data:** -
  Step one acquiring data the first step in the data
  science process is to acquire the data, you need to
  obtain the source material before anylysing or
  acting on it. The first step in acquiring dat is to
  be determine what data is available
  remote in many varieties, structured. & unstructed
  & with diff velocities, There are many technique
  & technologies to access these diff type of data,
  let's discuss a few eg. A lot of data exists in
  conventional relational db, like structure big data
  from organizations, The tool of choice to access
  data from db is is Structur query language.

2. **Step 2 - A Exploring Data:** -

Pooja

2. **Step2 - A Exploring Data :-**

exploring Data After you've Put together the data that you need for your App" you might be tempted to immediately build models to analyze the data. Resist the temptation, The first step after getting your data is to explore it, Exploring data is a Part of the two-step data preparation process you want to do some preliminary investigation in order to gain a better understanding. of the charaterize of your data. In this step you'll be looking for things like correlations, general trends, & outliers, without this step you will not be able to use the data effectively

3. **Step 2 - B - pre-Processing Data :-**

step-2-B pre-Processing Data The raw data that you get directly from your sources are never in the format that you need to perform analysis on. There are two main goals in the data pre-Processing step, the first is to clean the data to address data quality issues, & the second is to transform the raw data to make it suitable for anylysis, A very imp part of data preparat" is to address quality of issues in your data. Real word data is messy. There are many example of quality issues with data from real app" including inconsistent like data. customer with two diff address, duplicate customer records.

2

4. Step3: Anlyzing Data:-
Now, that your data nicely prepared, the next step is to analyze the data. Data analysis involve building a model from your data, which is called input data. The input data is used by the analysis technique to build a model. what your generates is the output data. There traffic delays need to be investigated to see what your model predicts is actually happending & whether the sources of the delays are where your they are predicted to be in the real system. After you have evaluated your model to get a sense of its performance on your data.

5. Step 4: communicating Results:-
reporting insights, the fourth step in our data science process is reporting the insights gained from our anlysis. This is avery imp step to communicate your insight & make a case of what actions should follow, it can change shape based on your audience & should not be taken lightly. so how do you get started? The first thing to do is to look at your analysis result & decide what to present or report as the biggest value or biggest set of values. In deciding what to present you should ask yourself there questions. what is the punchline? In other words? what are the main results? Answer to these questions are the items you need to include in your report or presentation.

Pooja

6. **Step 5 : Turning Insights into Action :-**
turning insights into action, Now that you have evaluated the result from your analysis & generated reports on the potential value of the result the next step is to determine what action or action should be taken, based on the insights gained? Remember why we started bringing together the data & analyzing it in the first place To find actions insights with all these data sets, to answer question or for improving business process for e.g its there Something in your process that should change to remove bottle necks ? is there data that should be added to your appln to make it more accurate? should you segment your population into more well defined grp for more effective target marketing? This is the first step in turning insights into action Now the you've determined what action to take, the next step is figuring out how to implement the action.

- **Conclusion :-** Thus student can implement note book for any data by using python tools like pandas, matplotlib, numpy e:

Pooja