

Assignment - 3

Date: / / 20

- Title:- write python code for that loads any dataset & plot the graph
- Problem Stmt:- write python code that loads any dataset & plot 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 makes 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 analysing or acting on it. The first step in acquiring data is to be determine what data is available

remote in many varieties, structured & unstructured (with diff velocities); There are many techniques & 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 SQL. Structured query language.

2. Step 2 - Exploring Data:-

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2. Step 2-A Exploring Data:-

Exploring Data After you've put together the data that you need for your Appⁿ 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 characterise 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 analysis, A very imp part of data preparatⁿ is to address quality of issues in your data. Real world data is messy. There are many example of quality issues with data from real appⁿ including inconsistent like data. customer with two diff address, duplicate customer records.

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4. Step 3: Analyzing 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 happening & whether the sources of the delays are where you 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 analysis. This is a very 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 these questions. What is the punchline? In other words? What are the main results? Answers to these questions are the items you need to include in your report or presentation.

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6. Steps: 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 actions 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 withing all these data sets, to answer question or for improving business process for e.g. is there something in your process that should change to remove bottle necks? is there data that should be added to your app'n 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 that you've determined what action to take, the next step is figuring out how to implement the action.

- Conclusion:- Thus student can implement notebook for any data by using python tools like pandas, matplotlib, numpy etc.