

Assignment - 3

Date: / / 20

Title :- write python code for that loads any dataset & plot the graph

Problem Statement :- 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 other includes anything that matter in retrieve including

1 Step 1 Acquiring Data :-

Step one aquiring data the first step in the data science process is to aquire data you need to obtain the source material before analysing or acting on it. The first step in aquiring data is to be determine what data is available

remove in many varieties, structured & unstructured & with different velocities, there are many technique & technologies to access this different type of dataset let's discuss a few eg. A lot of data existing conventional relational & ab. like. struc big data actual

data from structure query language.

2 Step 2 - A Exploring Data :-

exploring data after you've put together the data that you need for your API? you might be tempted to immediately build models to analyze the data resist temptation

The first step after getting your data is to explore it. Exploring data is a part of two-step data preparation process. You want to do some preliminary investigation in order to gain better understanding of specific characteristics of your data. In this step, you'll be looking for things like correlations, general trends, outliers. Without this step, you will not able to use the data effectively.

correlation graphs can be used to explore dependencies bet' n different variables in the data. Graphing general trends of variables will show you if there is a consistent direction in which the values of these variables are moving towards. like sales prices going up or down.

Step-2-B : Pre-processing data -

Step 2 B - Data the raw data that you get directly from your sources are never in 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 raw data to make it suitable for analysis. A very important part of data preparation is to address quality of issues in your data.

Step 3: Analyzing Data -

Now that you have your data nicely prepared the next step is to analyze the data. Data analysis involves 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 model generator is output data.

As a summary, data analysis involves selecting the appropriate technique for your problem, building the model, then evaluating the results. As there are different type of problems, there are also different types of analysis techniques. The ideal solution that will be your model platforms at the beginning of project. In that case, you're already move on to communicating & acting on results that you obtained from your problem analysis.

Step 4: Communicating Results :-

The fourth step in our data science process is reporting the insights gained from our analysis. This is very important step to communicate your insights & make a case for what actions should follow. It can change shape based on your audience & should be not taken lightly, so actions should follow. It can change shape. The first thing to do is to look at your analysis result & decide what to present or report as the biggest set of values. In deciding what to present you should ask yourself these questions. What is the punchline.

In summary you want to report your findings by presenting your results & value add with graphs using visualization tools.

Step 5: Turning Insights into action -

Now that you have evaluated the results from your analysis & generated reports on the potential value of results the next step is to determine what action or actions should be taken based on the insights gained. Remember why we started bringing together data & analyzing it.

In summary, big data & data signs are only useful if the insights can be turned into action, & if the actions are carefully defined & evaluated.

Post-lab:- students will be able acquire different data & perform statiscal operation on it & display graph on it. In this way student present data science operation on any data.

Conclusion :- Thus student can implement not book for (perform step 1 & step 2 data science steps for any data by using python tools like Pandas, matplotlib, numpy etc.