UDACITY

< Return to "Data Analyst Nanodegree" in the classroom

DISCUSS ON STUDENT HUB

Explore Weather Trends

REVIEW

HISTORY

Meets Specifications

Dear Student,

Great work! In this project we want to make sure:

- You are able to run effective queries where just relevant information is retrieved
- You are able to extract, at least, 4 insights from your data
- You are able to build a self-explanatory visualization that supports your findings

With your project, it is clear you understand these important topics and even went beyond the project's expectations since Python was used to perform the analysis, awesome!. In the following lessons we cover the most important libraries in Python for data analysis, I'm pretty sure you will be ok and hope you enjoy the lessons! 😄

Congratulations on passing your exam and good luck with your following assignment!

PD: This is an interesting resource explaining how the global temperatures are conducted. I find it quite interesting, hope you too 😄

"I would like special attention in checking my written observations (depth and accuracy), and the interpretation of the regression coefficients when explaining the trends."

I was impressed by the quality of your analysis. This is by far one of the best projects I've reviewed. Feel proud of your work! 💪

Analysis

- **The SQL query used to extract the data is included.**
- **The query runs without error and pulls the intended data.**

Excellent ✅

For your reference, this is an excellent post that describes the importance of running efficient queries!.

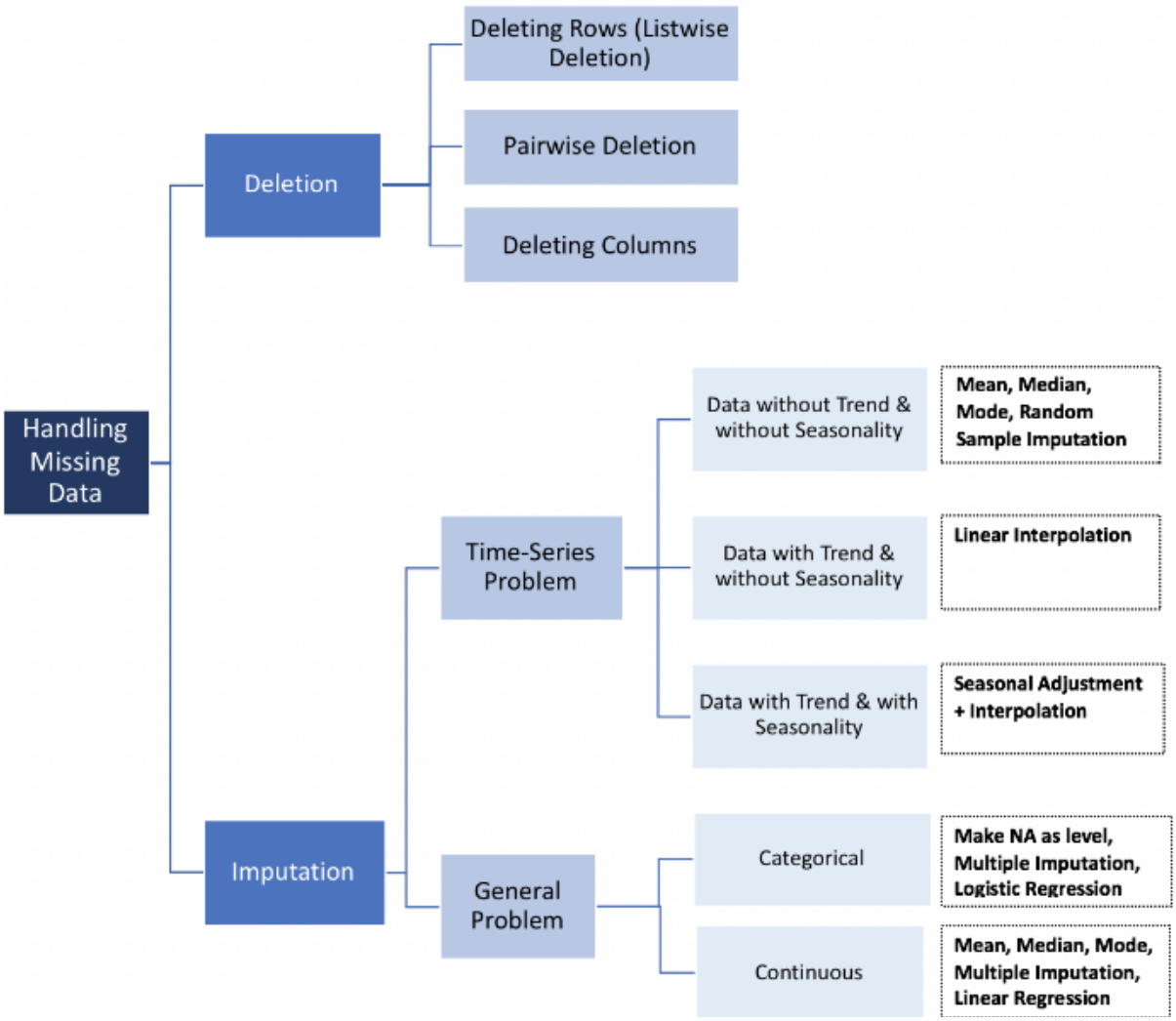
If you're interested in bolstering your SQL mastery with more questions and puzzles, here are a couple websites I often enjoy to looking for extra coding practice for SQL:

https://www.hackerrank.com/domains/sql/select
https://lagunita.stanford.edu/courses/DB/SQL/SelfPaced/courseware/ch-sql/seq-vid-introduction_to_sql/

Moving averages are calculated to be used in the line chart.

Nice work! Moving averages are sometimes tricky, you want to smooth your data without losing sensible information. Basically, there is a tradeoff between the information being represented and lost in the process. Ideally, you want to choose a moving window that captures the events you want to show while filters unnecessary noise from your visualization.

As a side comment, handling missing value is a science by itself, as you can see in the diagram below, there are multiple options:

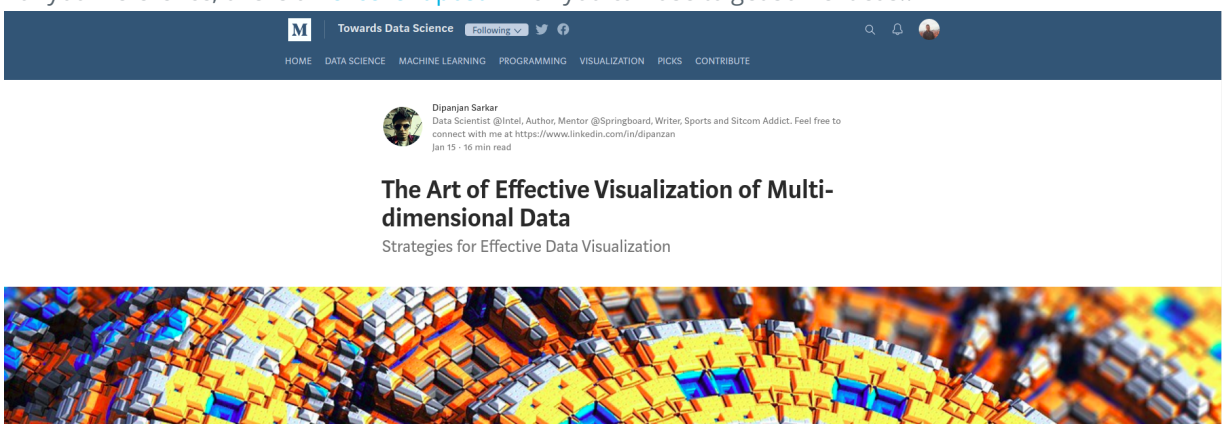


As you can see, depending on the problem characteristics there are several alternatives. For your reference, have a look at this blog

- **A line chart is included in the submission.**
- **The chart and its axes have titles, and there's a clear legend (if applicable).**

Nice work!. Your visualization perfectly captures the insights you described. In general, whenever we make visualizations, we must ask ourselves, *"Can the reader understand what the plot is conveying without looking at code or comments?"*, . In your visualization, all this information is perfectly described with a clear title and axis labels, this really helps your audience to understand the information represented. 👌

For your reference, this is an excellent post which you can use to get some ideas!.



- **The student includes four observations about their provided data visualization.**
- **The four observations are accurate.**

Great summary of your data!, your visualization clearly captures the insights described.

DOWNLOAD PROJECT

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