**Tips for the Assignment**

**This data is from the IT industry where the client is dealing with services to customers after purchasing a product. This means the client deals with data regarding tech support, warranties, repairs, etc. For this assessment, we are interested in seeing some of your data skills and your thought process around making sense of this kind of data.**

1. **Clean and pre-process the data**
2. **Analyse the data using different pivot, group by, Various charts and give appropriate insights for each and every analysis. Use different column combination for various analysis.**

**I’m sharing some reference sites. Go through the files and write your own code.**

[**https://www.kaggle.com/code/kashnitsky/topic-2-visual-data-analysis-in-python**](https://www.kaggle.com/code/kashnitsky/topic-2-visual-data-analysis-in-python)

[**https://www.kaggle.com/code/imakash3011/customer-analysis-eda-report-clustering**](https://www.kaggle.com/code/imakash3011/customer-analysis-eda-report-clustering)

[**https://www.kaggle.com/code/vincentvaseghi/e-commerce-data-analysis-customer-segmentation**](https://www.kaggle.com/code/vincentvaseghi/e-commerce-data-analysis-customer-segmentation)

[**https://www.kaggle.com/code/ekami66/detailed-exploratory-data-analysis-with-python**](https://www.kaggle.com/code/ekami66/detailed-exploratory-data-analysis-with-python)

[**https://www.kaggle.com/code/pmarcelino/comprehensive-data-exploration-with-python**](https://www.kaggle.com/code/pmarcelino/comprehensive-data-exploration-with-python)

[**https://www.kaggle.com/code/kashnitsky/topic-1-exploratory-data-analysis-with-pandas**](https://www.kaggle.com/code/kashnitsky/topic-1-exploratory-data-analysis-with-pandas)

**automate the report such that it gets updated every month.**

**You can use python script, tableau or Excel. I’m sharing some reference sites. Go through the files and write your own code to automate the report**

<https://towardsdatascience.com/a-simple-guide-to-automate-your-excel-reporting-with-python-9d35f143ef7>

<https://mljar.com/blog/automated-reports-python/>

<https://towardsdatascience.com/report-automation-tips-with-python-783a9cd58e23>

**Presentation:**

**You have to edit the PPT in step by step analysis that you did in the coding. Data cleaning, Pre-processing, Analysis (Uni,Bi,Multi) with your insights and Summary of the final analysis**