**Task: Perform Exploratory Data Analysis (EDA) by loading a dataset**

The main purpose of EDA is to help look at data before making any assumptions. It can help identify obvious errors, as well as better understand patterns within the data, detect outliers or anomalous events, find interesting relations among the variables.

The primary objective of Exploratory Data Analysis in order to perform Exploratory Data Analysis is to uncover the underlying structure. The structure of the various data sets determines the trends, patterns, and relationships among them. A business cannot come to a final conclusion or draw assumptions from a huge quantity of data and rather requires taking an exhaustive look at the data set through an analytical lens.

Therefore, performing an Exploratory Data Analysis allows data scientists to detect errors, debunk assumptions, and much more to ultimately select an appropriate predictive model.

Objective of Exploratory Data Analysis:

The goal of EDA is to allow data scientists to get deep insight into a data set and at the same time provide specific outcomes that a data scientist would want to extract from the data set. It includes:

* List of outliers
* Estimates for parameters
* Uncertainties about those estimates
* List of all important factors
* Conclusions or assumptions as to whether certain individual factors are statistically essential
* Optimal settings
* A good predictive model

**RESOURCES:**

1. <https://www.kaggle.com/code/alokevil/simple-eda-for-beginners>

2. <https://www.analyticsvidhya.com/blog/2021/08/how-to-perform-exploratory-data-analysis-a-guide-for-beginners/>

3. <https://towardsdatascience.com/exploratory-data-analysis-dcb5e7189c4e>

4. <https://confusedcoders.com/data-science/exploratory-data-analysis-eda-techniques-for-kaggle-competition-beginners>

5. <https://deepnote.com/@code-along-tutorials/A-Beginners-Guide-to-Exploratory-Data-Analysis-with-Python-f536530d-7195-4f68-ab5b-5dca4a4c3579>