# In this article, I’m going to introduce you to a Automatic EDA using Python where we will understand all the information and statistics of the data in a few lines of code.

# By using Python libraries we save a lot of time, which is why Python is such a popular programming language for data science and machine learning.

## What is Automatic EDA?

The role of a Data Scientist begins with exploratory data analysis. It is the first and most important step in any data science task. The EDA helps a Data Scientist understand changes in data, from missing values to outliers. So, Python libraries like Pandas, Matplotlib, Seaborn, and even Plotly are used for exploratory data analysis by most machine learning practitioners.

But there are other libraries that can be used for EDA analysis as Automatic EDA. They shows all the necessary statistics of the data and all the necessary information by interactive visualizations and summary statistics.

**Automatic EDA Libraries in Python**

* Dtale
* LUX
* Pandas- summary
* Exploripy
* Bamboolib (Edaviz)
* Holo views
* Pandas profiling
* Sweet viz
* Auto viz
* Dora
* data Prep
* TPOT

If you have never used it before, you are at the right place to looking up and learn, I personally recommends you to use JUPYTER NOTEBOOK for choosing these libraries it can be easily understand and easy to code.

They can be installed by using the !pip command; pip install Lib\_Name. Now let’s get started how each library helps us to do EDA by importing the necessary Python libraries and with the simple used inbuilt datasets for each library and to draw some Insights by visual representations.

Note: Lookup into the .ipynb Python files for detail view