**Libraries Employed for Exploratory Data Analysis**

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| **Category** | **Library** | **Description** |
| Data Handling | pandas | Used for handling tabular data , data manipulation and analysis. |
| numpy | Provides support for large, multi-dimensional arrays and matrices, along with a large collection of high-level mathematical functions to operate on these arrays. |
| Visualization | matplotlib | A plotting library for creating static, animated, and interactive visualizations in Python. |
| seaborn | Seaborn is a Python visualization library based on matplotlib. It provides a high-level interface for drawing attractive statistical graphics. |
| plotly | A graphing library for making interactive plots and dashboards. |
| Statistical Models | statsmodels | Used for building and analyzing statistical models, including linear models and time series analysis. |
| scipy.stats | The scipy.stats is the SciPy sub-package. It is mainly used for probabilistic distributions and statistical operations. |
| Time Series Analysis | pmdarima | A library for auto-regressive integrated moving averages models, useful in time series prediction. |
| Environment Management | google.colab | Used for running Python code in Google Colab notebooks. |
| Date Handling | datetime | Provides classes for manipulating dates and times. |
| holidays | Library used for determining public holidays for any country, useful for time series analysis where trends may be affected by holidays. |