

Automated EDA on Visa dataset

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```
In [1]: # Install supporting libraries  
!pip install pandas-profiling sweetviz --upgrade --quiet
```

```
In [2]: # Import supporting libraries  
import pandas as pd  
from pandas_profiling import ProfileReport  
import sweetviz as sv  
import dtale
```

EDA using pandas profiling.

```
In [3]: # EDA using pandas-profiling  
profile = ProfileReport(pd.read_csv(".\Visadataset.csv"),  
                        explorative=True)
```

```
In [4]: # Saving results to a HTML file  
profile.to_file("pandas_profiling_visa_report.html")  
  
# Saving results to a JSON file  
profile.to_file("pandas_profiling_visa_report.json")
```

```
In [5]: # Displaying the report as a set of widgets  
profile.to_widgets()
```

```
In [6]: # Displaying report in notebook cell.  
profile.to_notebook_iframe()
```

Overview

Dataset statistics

Number of variables	12
Number of observations	25480
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	14.1 MiB
Average record size in memory	581.9 B

Variable types

Categorical	6
Boolean	3
Numeric	3

Alerts

case_id has a high cardinality: 25480 distinct values	High cardinality
case_id is uniformly distributed	Uniform
case_id has unique values	Unique

EDA using Sweetviz

```
In [7]: #EDA using Sweetviz
sweet_report = sv.analyze(pd.read_csv("./Visadataset.csv"))
```

```
In [8]: #Saving results to HTML file
sweet_report.show_html('sweet_visa_report.html')
```

Report sweet_visa_report.html was generated! NOTEBOOK/COLAB USERS: the web browser MAY not pop up, regardless, the report IS saved in your notebook/colab files.

EDA using D-tale

```
In [9]: # Assigning dataset to variable  
df = pd.read_csv('.\Visadataset.csv')  
dtale.show(df)
```

Out[9]: