10 Automated EDA Tools That Will Save You Hours Of (Tedious) Work





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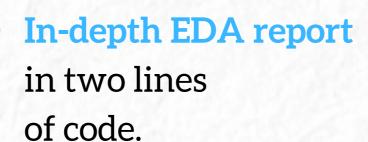
EDA is a vital but time-consuming task in a data project.



Here are 10 open-source tools that generate an EDA report in seconds.

1. SweetViz





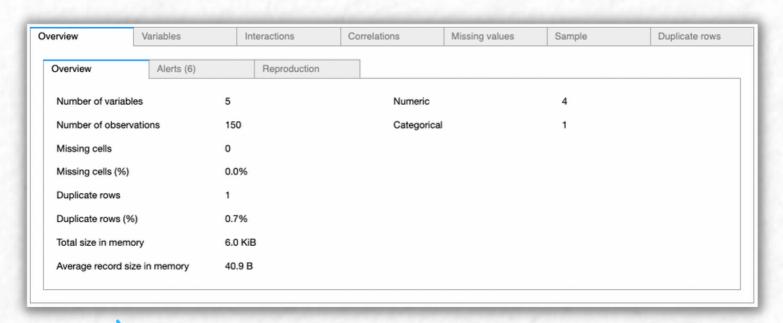
Covers information about missing values, data statistics, etc.

Creates a variety of data visualizations.

Integrates with Jupyter Notebook.

2. Pandas-Profiling







Generate a high-level EDA report of your data in no time.



Covers info about missing values, data statistics, correlation etc.



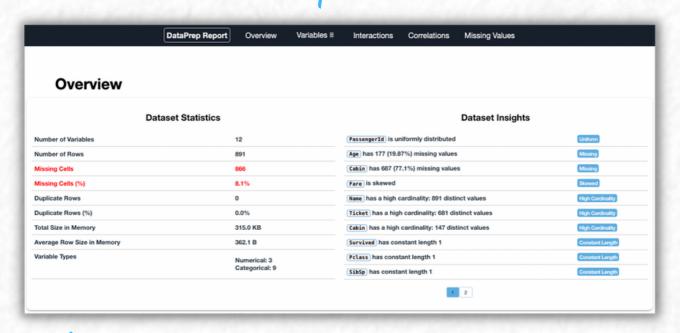
Produces data alerts.



Plots data feature interactions.

3. DataPrep





Supports Pandas and Dask DataFrames.

Interactive Visualizations.

10x Faster than Pandas based tools.

Covers info about missing values, data statistics, correlation etc.

Plots data feature interactions.

4. AutoViz





Interactive Boken charts.

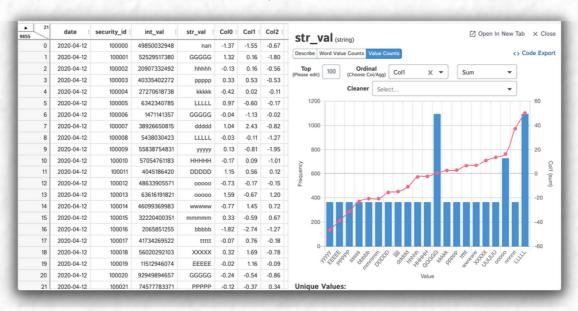
Covers info about missing values, data statistics, correlation etc.

Presents data cleaning suggestions.

5. D-Tale

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Runs common Pandas operation with no-code.

Exports code of analysis.

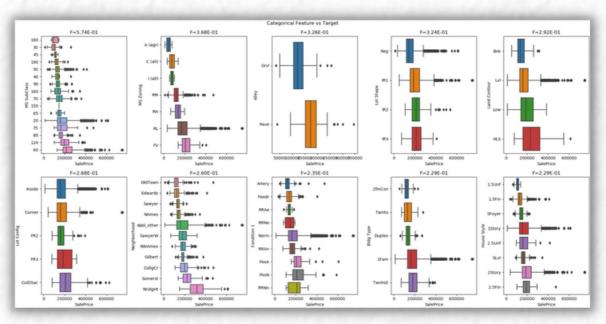
Integrates with Jupyter Notebook.

Covers info about missing values, data statistics, correlation etc.

Highlights duplicates, outliers, etc.

6. dabl







Covers wide range of plots.

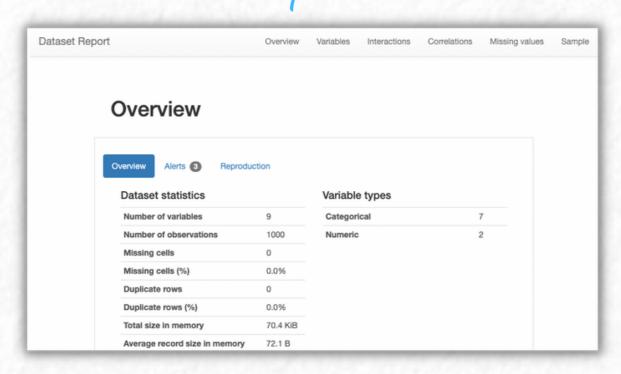
Target distribution.

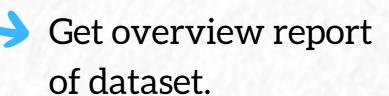
Scatter pair plots.

Histograms.

7. QuickDA







Covers info about missing values, data statistics, correlation etc.

Produces data alerts.

Plots data feature interactions.

8. Dataile

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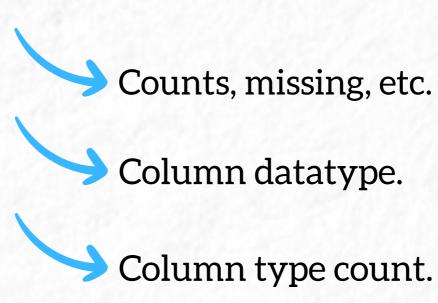


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count	45211	NaN	NaN	NaN	NaN	45211	NaN	NaN	NaN	45211	NaN	45211	45211	45211	45211	NaN	Nah
mean	40.9362	NaN	NaN	NaN	NaN	1362.27	NaN	NaN	NaN	15.8064	NaN	258.163	2.76384	40.1978	0.580323	NaN	Nat
std	10.6188	NaN	NaN	NaN	NaN	3044.77	NaN	NaN	NaN	8.32248	NaN	257.528	3.09802	100.129	2.30344	NaN	Nat
min	18	NaN	NaN	NaN	NaN	-8019	NaN	NaN	NaN	1	NaN	0	1	-1	0	NaN	Nat
25%	33	NaN	NaN	NaN	NaN	72	NaN	NaN	NaN	8	NaN	103	1	-1	0	NaN	Nat
50%	39	NaN	NaN	NaN	NaN	448	NaN	NaN	NaN	16	NaN	180	2	-1	0	NaN	Nat
75%	48	NaN	NaN	NaN	NaN	1428	NaN	NaN	NaN	21	NaN	319	3	-1	0	NaN	Nat
max	95	NaN	NaN	NaN	NaN	102127	NaN	NaN	NaN	31	NaN	4918	63	871	275	NaN	Nat
counts	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	45211	4521
uniques	77	12	3	4	2	7168	2	2	3	31	12	1573	48	559	41	4	
missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
nissing_perc	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	05
types	numeric	categorical	categorical	categorical	bool	numeric	bool	bool	categorical	numeric	categorical	numeric	numeric	numeric	numeric	categorical	boo

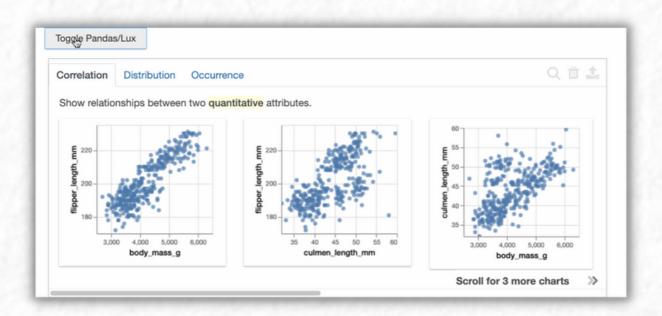


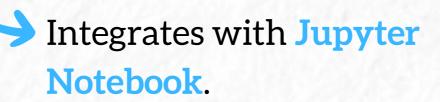
Mostly statistical information.





9. Lux





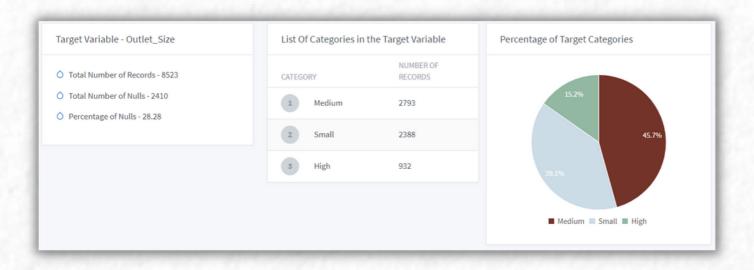
Provides visualization recommendations.

Supports EDA on a subset of columns.

Exports code of analysis.

10. ExploriPy





Covers info about missing values, data statistics, correlation etc.

Performs statistical testing.

Column type-wise distribution.

Continuous

Hope that helped.



Checkout my daily newsletter to learn something new about Python and Data Science everyday.



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