pip install dataprep

```
Collecting dataprep
 Downloading dataprep-0.4.0-py3-none-any.whl (2.1 MB)
                             2.1 MB 3.6 MB/s
Collecting pydantic<2.0,>=1.6
  Downloading pydantic-1.8.2-cp37-cp37m-manylinux2014 x86 64.whl (10.1 MB)
                                    | 10.1 MB 21.7 MB/s
Collecting regex<2021.0.0,>=2020.10.15
 Downloading regex-2020.11.13-cp37-cp37m-manylinux2014 x86 64.whl (719 kB)
                              719 kB 51.8 MB/s
Collecting metaphone<0.7,>=0.6
  Downloading Metaphone-0.6.tar.gz (14 kB)
Collecting aiohttp<4.0,>=3.6
  Downloading aiohttp-3.8.0-cp37-cp37m-manylinux_2_5_x86_64.manylinux1_x86_64.manyli
                             1.1 MB 46.5 MB/s
Collecting dask[array,dataframe,delayed]<3.0,>=2.25
  Downloading dask-2.30.0-py3-none-any.whl (848 kB)
                            848 kB 37.8 MB/s
Requirement already satisfied: pandas<2.0,>=1.1 in /usr/local/lib/python3.7/dist-pac
Collecting wordcloud<2.0,>=1.8
 Downloading wordcloud-1.8.1-cp37-cp37m-manylinux1_x86_64.whl (366 kB)
             366 kB 72.7 MB/s
Requirement already satisfied: jinja2<3.0,>=2.11 in /usr/local/lib/python3.7/dist-pa
Collecting levenshtein<0.13.0,>=0.12.0
  Downloading levenshtein-0.12.0-cp37-cp37m-manylinux1_x86_64.whl (158 kB)
               158 kB 72.7 MB/s
Collecting usaddress<0.6.0,>=0.5.10
  Downloading usaddress-0.5.10-py2.py3-none-any.whl (63 kB)
                       63 kB 2.7 MB/s
Collecting python-stdnum<2.0,>=1.16
  Downloading python_stdnum-1.17-py2.py3-none-any.whl (943 kB)
                943 kB 53.4 MB/s
Requirement already satisfied: numpy<2,>=1 in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: tqdm<5.0,>=4.48 in /usr/local/lib/python3.7/dist-pack
Collecting nltk<4.0,>=3.5
  Downloading nltk-3.6.5-py3-none-any.whl (1.5 MB)
                1.5 MB 58.4 MB/s
Requirement already satisfied: bokeh<3,>=2 in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: scipy<2,>=1 in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: ipywidgets<8.0,>=7.5 in /usr/local/lib/python3.7/dist
Requirement already satisfied: bottleneck<2.0,>=1.3 in /usr/local/lib/python3.7/dist
Collecting varname<0.9.0,>=0.8.1
  Downloading varname-0.8.1-py3-none-any.whl (20 kB)
Collecting jsonpath-ng<2.0,>=1.5
 Downloading jsonpath_ng-1.5.3-py3-none-any.whl (29 kB)
Collecting frozenlist>=1.1.1
 Downloading frozenlist-1.2.0-cp37-cp37m-manylinux 2 5 x86 64.manylinux1 x86 64.man
                                    || 192 kB 48.9 MB/s
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.7/dist-packag
Requirement already satisfied: charset-normalizer<3.0,>=2.0 in /usr/local/lib/python
Collecting asynctest==0.13.0
  Downloading asynctest-0.13.0-py3-none-any.whl (26 kB)
Collecting multidict<7.0,>=4.5
  Downloading multidict-5.2.0-cp37-cp37m-manylinux 2 5 x86 64.manylinux1 x86 64.many
```

```
| 160 kB 58.7 MB/s

Collecting aiosignal>=1.1.2

Downloading aiosignal-1.2.0-py3-none-any.whl (8.2 kB)

Collecting yarl<2.0,>=1.0
```

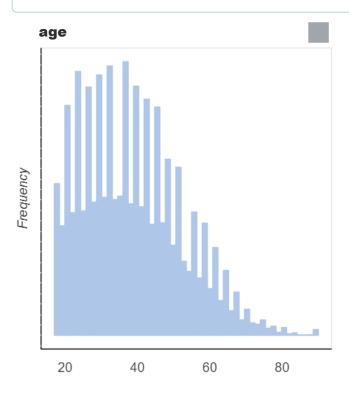
```
from dataprep.datasets import get_dataset_names
get_dataset_names()
     ['patient_info',
      'house_prices_test',
      'titanic',
      'wine-quality-red',
      'adult',
      'waste_hauler',
      'covid19',
      'iris',
      'countries',
      'house_prices_train']
import numpy as np
import pandas as pd
from dataprep.datasets import load dataset
df = load_dataset('adult')
df.head()
df1 = load_dataset('titanic')
```

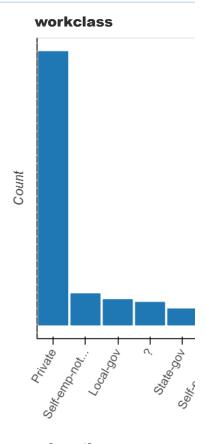
- EDA

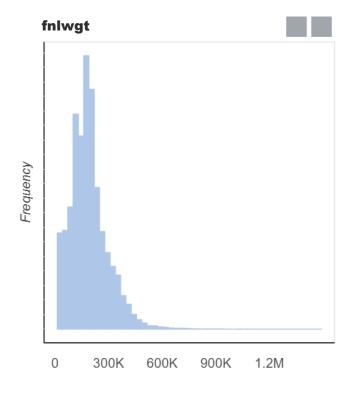
distribution with plot()

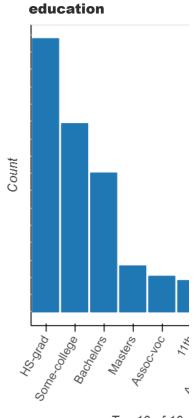
from dataprep.eda import plot
plot(df)

Show Stats and Insights





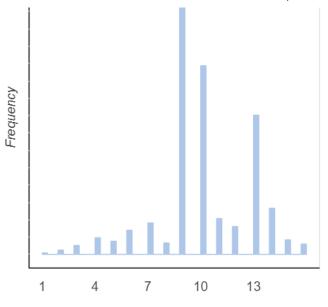


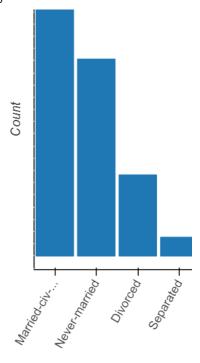


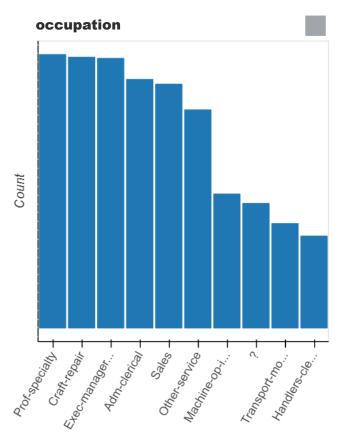
Top 10 of 16 e

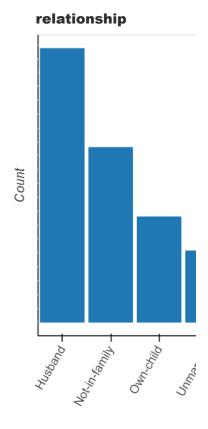






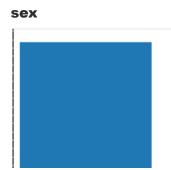






Top 10 of 15 occupation







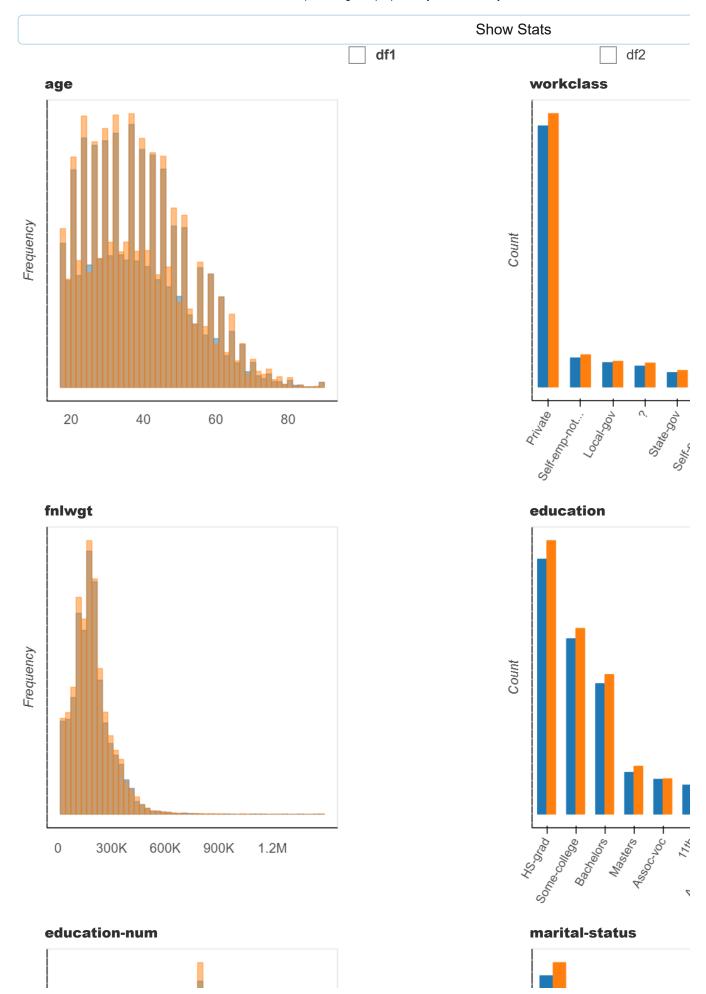
correlation()

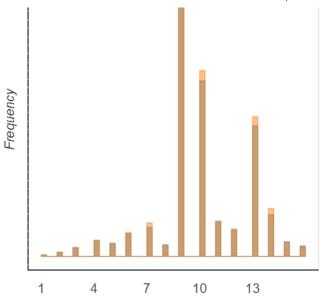
from dataprep.eda import plot_correlation
plot_correlation(df)

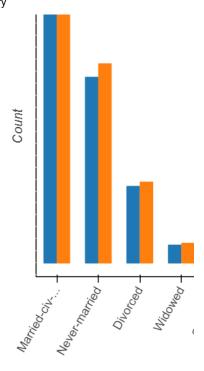
Stats	Pearso	Spearman		KendallTau	
			Pearson	Spearman	KendallTau
		Highest Positive Correlation	0.144	0.164	0.13
	Ī	Highest Negative Correlation	n - 0.077	-0.078	-0.064
	Ī	Lowest Correlation	0.004	0.001	0.001
	Ī	Mean Correlation	0.031	0.039	0.033

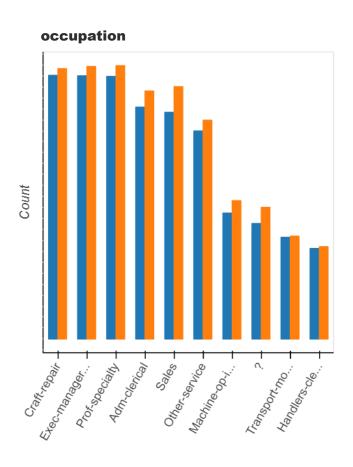
from dataprep.eda import plot_missing
plot_missing(df1)

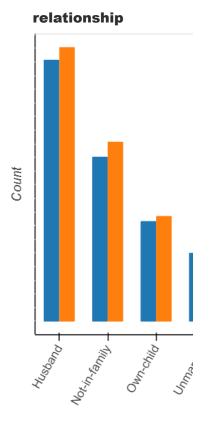
Stats	Bar Chart	Spectrum	Heat Map	Dendrogram	
			Missing	Statistics	
			Missing Cells	866	
			Missing Cells (%)	8.1%	
			Missing Columns	3	
			Missing Rows	708	
			Avg Missing Cells per Column 72.17		
			Avg Missing Cells	s per Row 0.97	



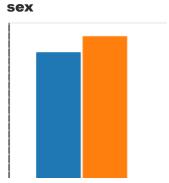
















from dataprep.eda import create_report
report = create_report(df)



report.show()

DataPrep Report Overview Variables ≡ Interactions Correlati 28K **Approximate Distinct Count** 2 21K Approximate Unique (%) 0.0% Count sex 14K 0 categorical **Missing Show Details** 7000 0.0% Missing (%) 0 **Memory Size** 3.3 MB **Approximate Distinct** 123 Mean 1079.0676 Count 40K **Minimum** 0 **Approximate Unique** 0.3% (%) 30K **Maximum** 99999 capital-gain 0 **Missing** 20K 44807 numerical **Zeros** Missing (%) 0.0% Show Details 91.7% 10K Zeros (%) 0 Infinite 0 **Negatives** 0 Infinite (%) 0.0% 0.0% Negatives (%) **Memory Size** 763.2 KB **Approximate Distinct** 99 87.5023 Mean Count **Minimum** 0 40K **Approximate Unique (%)** 0.2% 4356 Maximum 30K 0 **Missing** capital-loss 46560 **Zeros** numerical 20K 0.0% Missing (%) **Show Details** 95.3% Zeros (%) Infinite 0 10K **Negatives** 0 0.0% Infinite (%) 0 Negatives (%) 0.0% 763.2 **Memory Size KB Approximate Distinct** 96 Mean 40.4224 Count 20K **Minimum** 1 0.2% **Approximate Unique (%) Maximum** 99 15K 0 **Missing**

Missing (%)

hours-per-week

numerical

10K

0

Zeros

0.0%