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Package Name Ctrl4Al

Latest Version 1.0.2

Environment Python

Hosted On PyPi

Mode of install pip

What's new?

Open Source Package with emphasis on data preprocessing so far.

Self intelligent methods that can be employed at the levels of abstraction or customization.

The flow of **auto-preprocessing** is orchestrated compatible to the learning type.

Parameter tuning allows users to transform the data precisely to their specifications.

Developed **computations** to discover the type of data, it's distribution, correlation etc. which are handled in the background.

ctrl4ai.automl

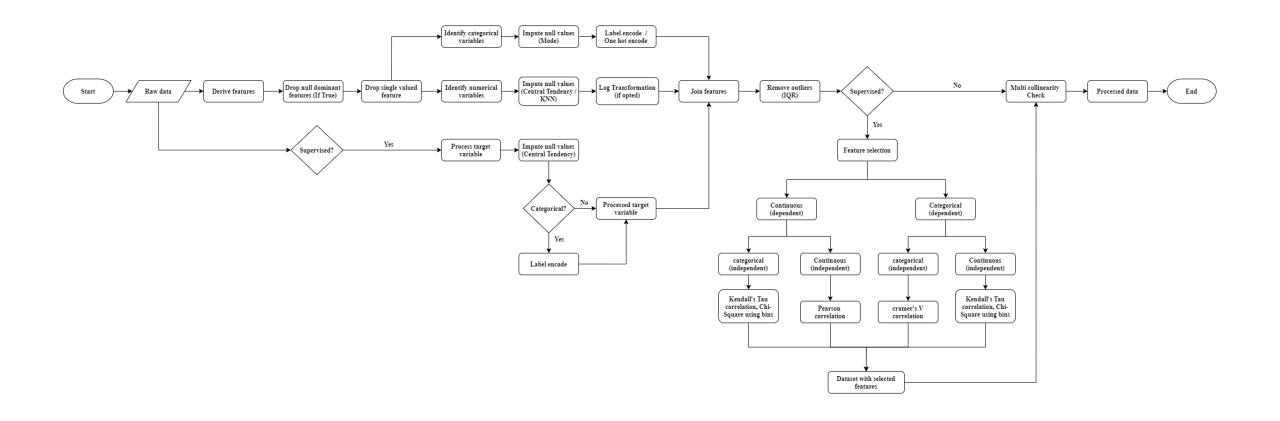
preprocess(dataset, learning_type, target_variable=None, target_type=None, impute_null_method='central_tendency', tranform_categorical='label_encoding', categorical_threshold=0.3, remove_outliers=False, log_transform=None, drop_null_dominated=True, dropna_threshold=0.7, derive_from_datetime=True, ohe_ignore_cols=[], feature_selection=True, define_continuous_cols=[], define_categorical_cols=[])

```
dataset1 labels,dataset1 processed=automl.preprocess(dataset1,'supervised',target variable='fare amount',target type='continuous')
dataset1 processed.head()
Dropping single valued column(s) new user, year of pickup datetime, year of dropoff datetime
Columns identified as continuous are tip amount, pickup longitude, pickup latitude, dropoff longitude, dropoff latitude
Columns identified as categorical are vendor id, tolls amount, mta tax, passenger count, rate code, store and fwd flag, payment type, surcharge, hour of pickup datetime, weekday of pickup datetime, mor
Replaced nulls in tolls amount with mode
Replaced nulls in mta_tax with mode
Replaced nulls in passenger count with mode
Replaced nulls in rate code with mode
Replaced nulls in store and fwd flag with mode
Replaced nulls in payment type with mode
Replaced nulls in surcharge with mode
Labels for vendor id: {'DST000401': 0, 'DST000532': 1}
Labels for store and fwd_flag: {'N': 0, 'Y': 1}
Labels for payment type: {'CRD': 0, 'CSH': 1, 'DIS': 2, 'NOC': 3, 'UNK': 4}
Replaced nulls in tip amount with mode
Replaced nulls in pickup longitude with mean
Replaced nulls in pickup latitude with mean
Replaced nulls in dropoff longitude with mean
Replaced nulls in dropoff latitude with mean
    pickup longitude dropoff longitude vendor id tolls amount passenger count rate code store and fwd flag surcharge hour of pickup datetime weekday of pickup datetime month of pickup
 0
           -74.003939
                              -73.993369
                                                 0
                                                              0.0
                                                                               1.0
                                                                                          1.0
                                                                                                                          0.5
                                                                                                                                                     4
                                                                                                                                                                                 0
           -73.973864
                              -73.958701
                                                 0
                                                              0.0
                                                                               3.0
                                                                                          1.0
                                                                                                                0
                                                                                                                          0.0
                                                                                                                                                    18
 2
           -73.954406
                              -73.970780
                                                 0
                                                              0.0
                                                                               2.0
                                                                                          1.0
                                                                                                                0
                                                                                                                          0.0
                                                                                                                                                    8
           -73.962345
                              -73.975512
                                                              0.0
                                                                               2.0
                                                                                          1.0
                                                                                                                0
                                                                                                                          0.0
                                                                                                                                                     9
           -74.004657
                              -73.999369
                                                              0.0
                                                                               1.0
                                                                                          1.0
                                                                                                                          0.0
                                                                                                                                                    13
```

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pip install ctrl4ai 📙





Don't repeat! Just Automate!