Ctrl4AI

A helper package for machine learning and deep learning solutions

Current Version: 1.0.X

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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 for inspecting the data to discover its type, distribution, correlation etc. which are handled in the background.

Install & Import:

Hosted officially in python package index, accessible globally for the users to avail oneself of the functionalities

install and import using the following command,

```
pip install ctrl4ai
```
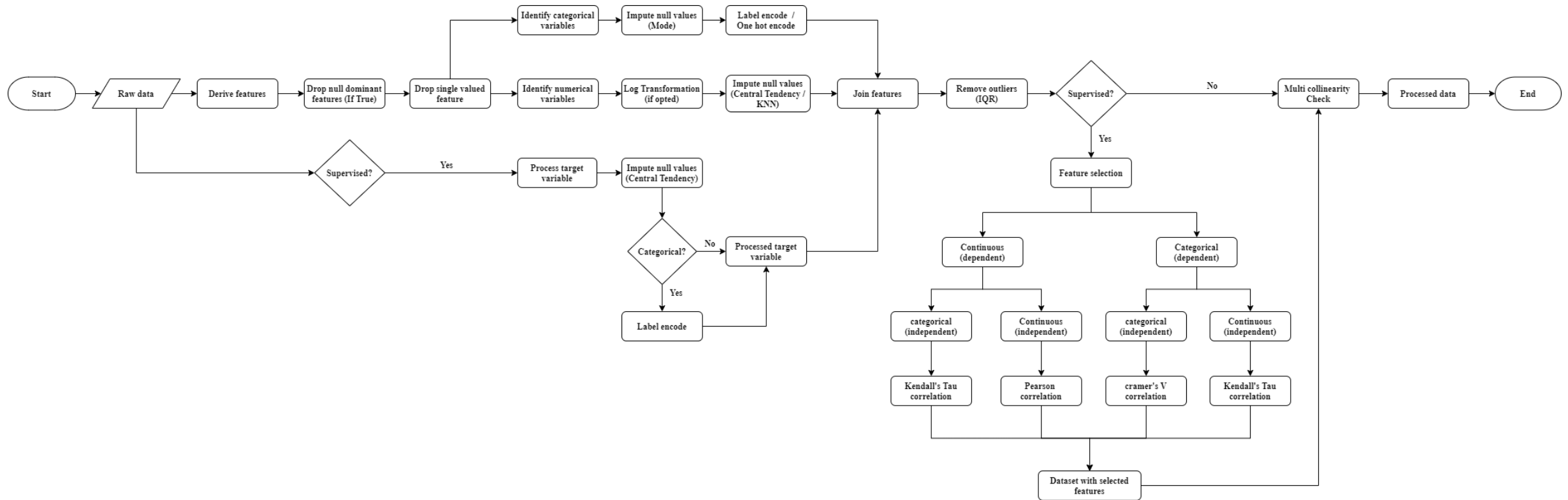
```
from ctrl4ai import automl
```

(View at: https://pypi.org/project/ctrl4ai/)

Key features:

- Auto-Preprocessing Method (with optional parameter tuning)

- Independent methods that are not directly achievable:

  - Check type of data - ordinal/nominal/numeric

  - Derive features from datetime, geo-coordinates etc.

  - Normalization/Standardization techniques for sparsely/asymmetrically distributed data

- Different correlation strategies for different data types

Codebase: (View at: https://github.com/vkreat-tech/ctrl4ai)

AutoML - Preprocess

Future Enhancements:

- Model specific pre-processing
- Bagging/boosting methods
- Text, Image, Audio, Video Analytics