

Feature-engine



- https://www.trainindata.com/feature-engine
- https://feature-engine.readthedocs.io/en/latest/
- https://github.com/solegalli/feature_engine

pip install feature-engine



Feature-engine: Advantages

- Feature-engine includes all the feature engineering techniques described in the course
- Feature-engine works like to Scikit-learn, so it is easy to learn
- Feature-engine allows you to implement specific engineering steps to <u>specific feature subsets</u>
- Feature-engine can be integrated with the Scikit-learn pipeline allowing for smooth model building
- Feature-engine allows you to design and store a feature engineering pipeline with bespoke procedures for different variable groups.



Feature-engine: with fit and transform



fit() → learns parameters from train set

transform() → transforms data



Feature-engine transforms specific variables



Feature engine allows you to specify variable groups easily



Feature-engine stores the transformation parameters



```
1 # now the imputer uses only the variables we indicated
2
3 imputer.variables
```

['LotFrontage', 'MasVnrArea']

```
1 # and we can see the value assigned to each variable
2 imputer.imputer_dict_
```

{'LotFrontage': 69.66866746698679, 'MasVnrArea': 103.55358898721731}



Feature-engine: Limitations

✓ I would like to hear your feedback!!!







THANK YOU

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