



Feature-engine is an open-source Python
library with multiple transformers to engineer
and select features to use in machine learning
models.



What is unique about Feature-engine?



# Feature-engine exhaustive battery of feature transformations.





#### Feature-engine and feature subsets

 Transformations can be applied to a feature subset.

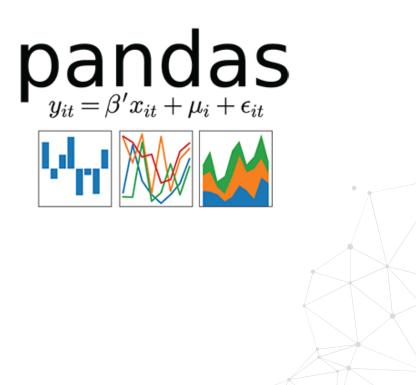
 No need to slice data or use additional classes.





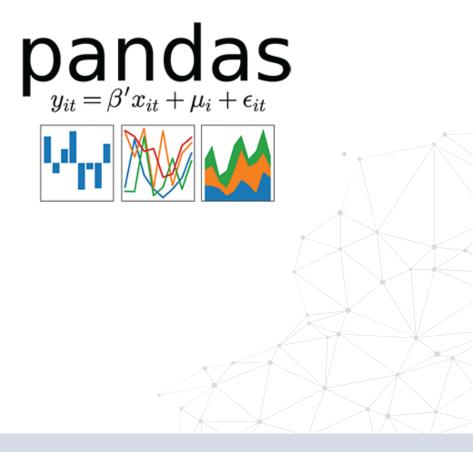
#### Feature-engine works with dataframes

- Takes in and returns a Pandas dataframe
  - data analysis + deployment



#### Feature-engine and variables

Automatically recognises numerical, categorical and datetime variables.



### Feature-engine: fit() and transform()



• fit() → learns parameters from train set

transform() → transforms data





- https://feature-engine.readthedocs.io/en/latest/index.html
- <a href="https://github.com/feature-engine/feature engine">https://github.com/feature-engine/feature engine</a>

pip install feature-engine

Conda install -c conda-forge feature-engine



Allows application of each feature engineering technique to a

#### subset of features



```
imputer.variables
['LotFrontage', 'MasVnrArea']

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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