

# Preprocessing with Sklearn pipeline

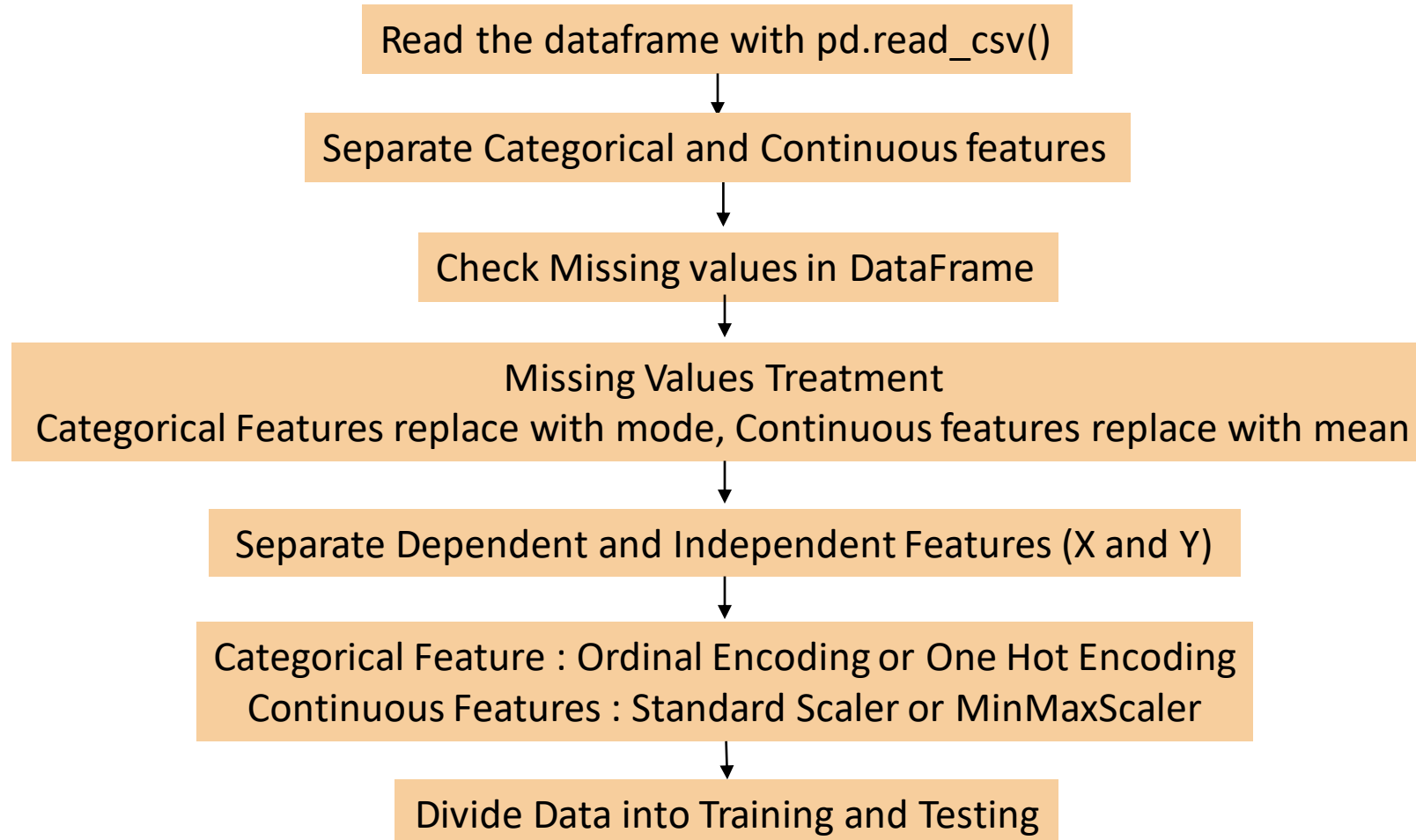
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UTKARSH GAIKWAD

CLASS STARTING SHARP AT 8:05 PM

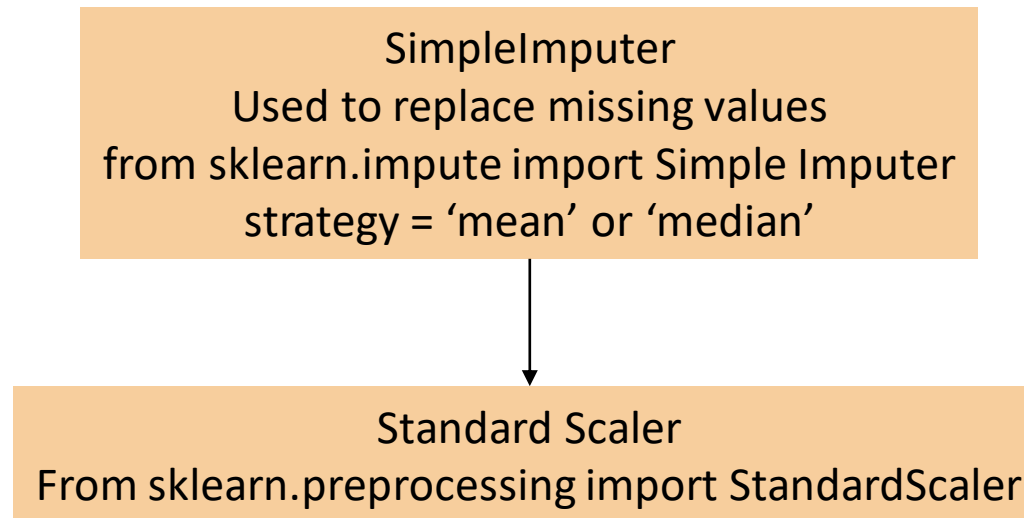
# Basic Steps in creating a Data Preprocessing

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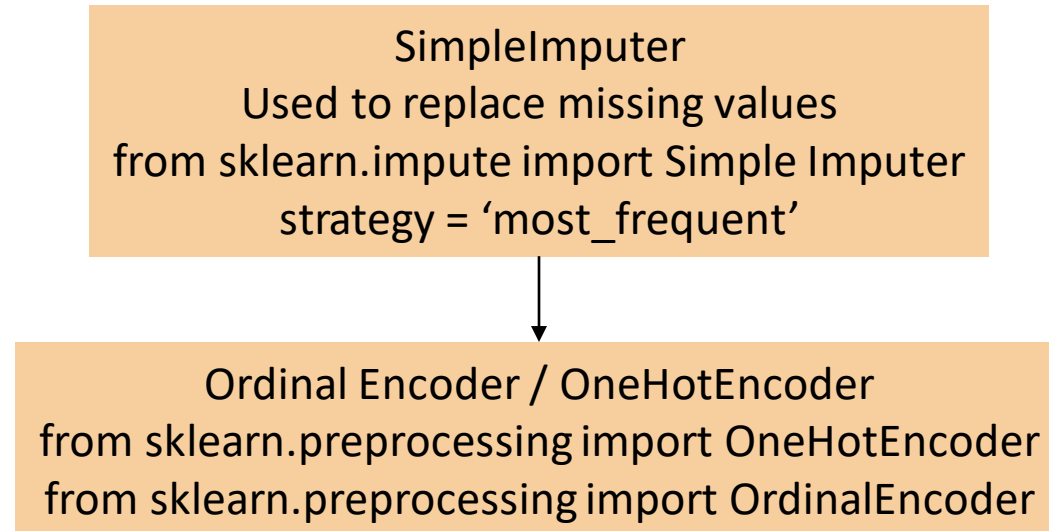
# Sklearn pipeline numeric features

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# Sklearn pipeline for categorical features

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# Column Transformer

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```
from sklearn.compose import ColumnTransformer
```



```
Numeric Pipeline, Numeric features (con)
```



```
Categorical Pipeline , Categorical features (cat)
```

# Example Code with all pipeline

```
from sklearn.pipeline import Pipeline
from sklearn.impute import SimpleImputer
from sklearn.preprocessing import OrdinalEncoder, StandardScaler
from sklearn.compose import ColumnTransformer
```

Import the Pipeline functions

```
# Numeric pipeline
num_pipeline = Pipeline(steps=[('imputer', SimpleImputer(strategy='mean')),
                                ('scaler', StandardScaler())])
```

Numeric Pipeline

```
# Categorical Pipeline
cat_pipeline = Pipeline(steps=[('imputer', SimpleImputer(strategy='most_frequent')),
                                ('ordinal_encoder', OrdinalEncoder())])
```

Categorical Pipeline

Combine  
Cat and  
num pipes

```
# Column Transformer
preprocessor = ColumnTransformer([('num_pipeline', num_pipeline, 'num'),
                                   ('cat_pipeline', cat_pipeline, 'cat')])
```

# Thank you

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