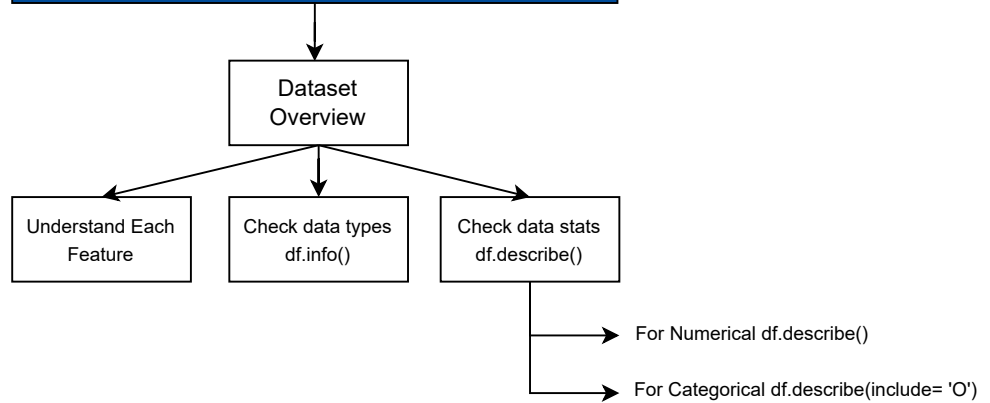
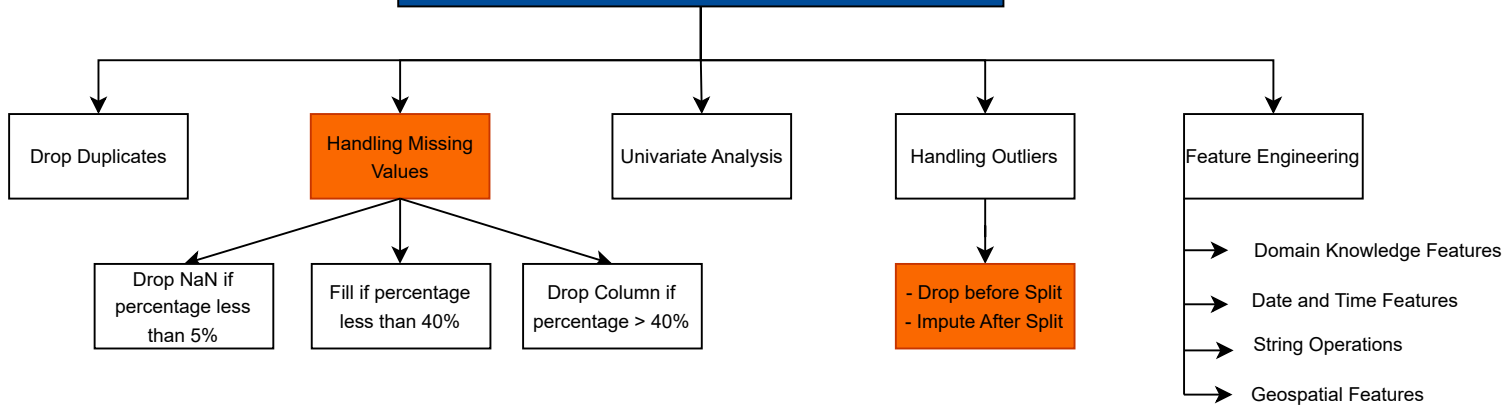


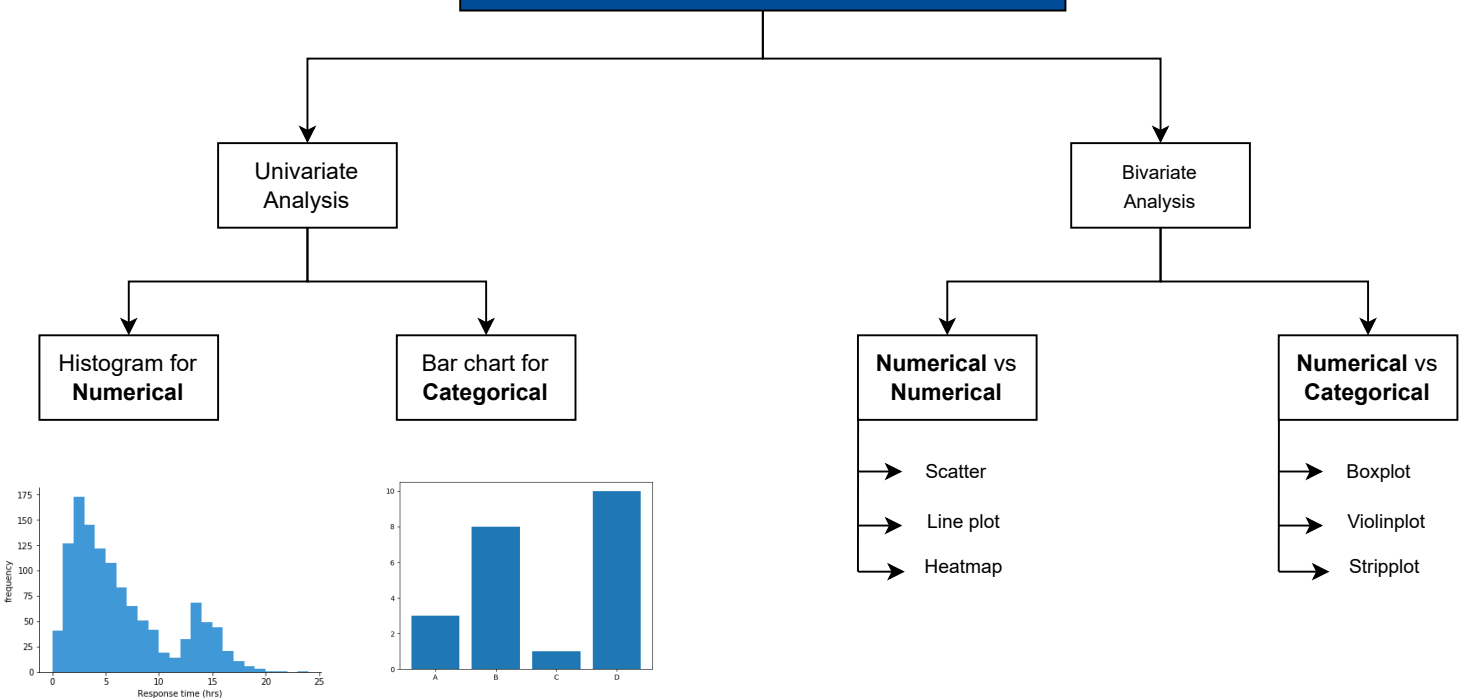
Data Understanding



Data Cleaning



Analysis Questions



Data Preprocessing & ML

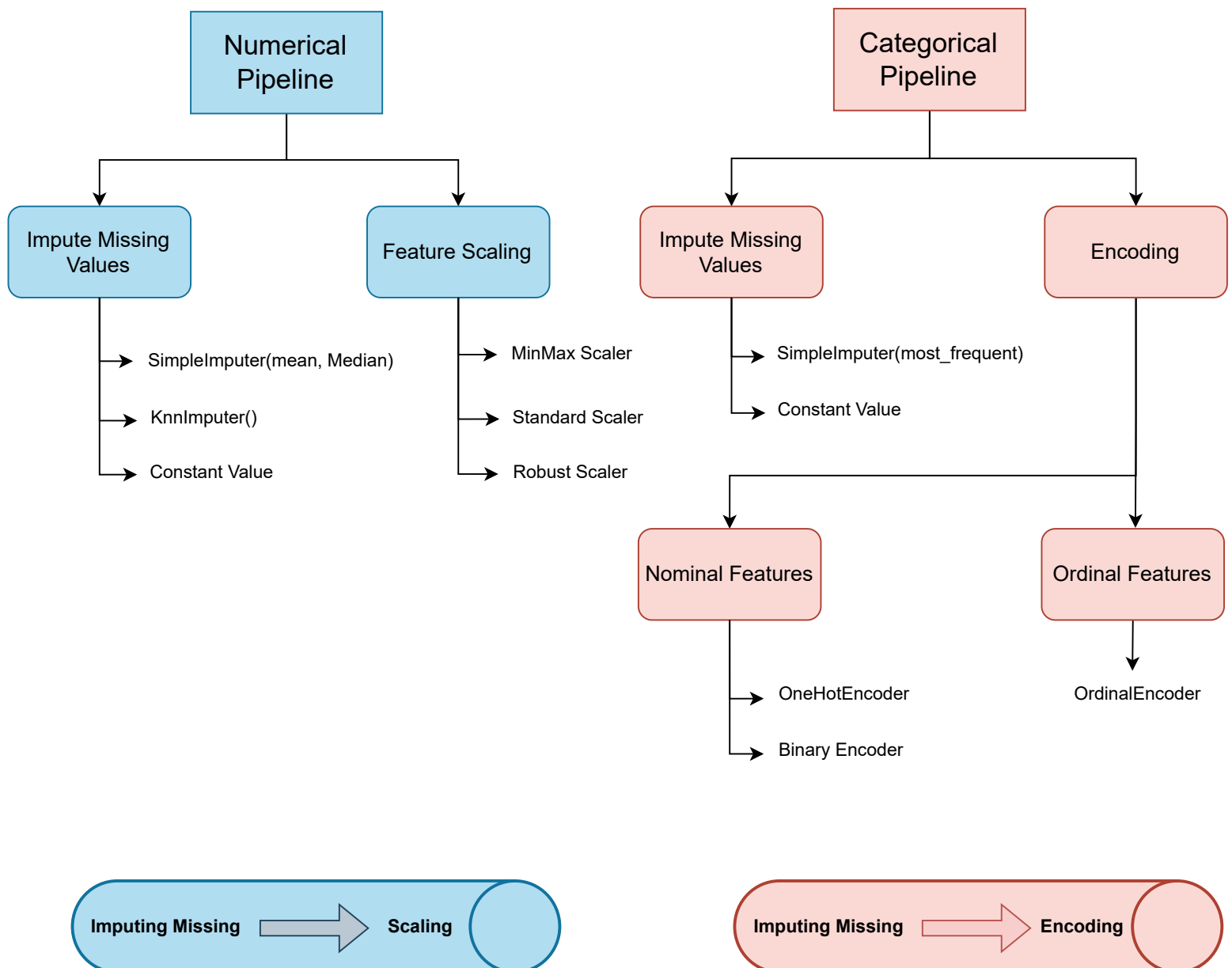
1

Split Data into Input Features and Target Variable

```
x = df.drop('Target Variable', axis= 1)
y = df['Target Variable']
```

2

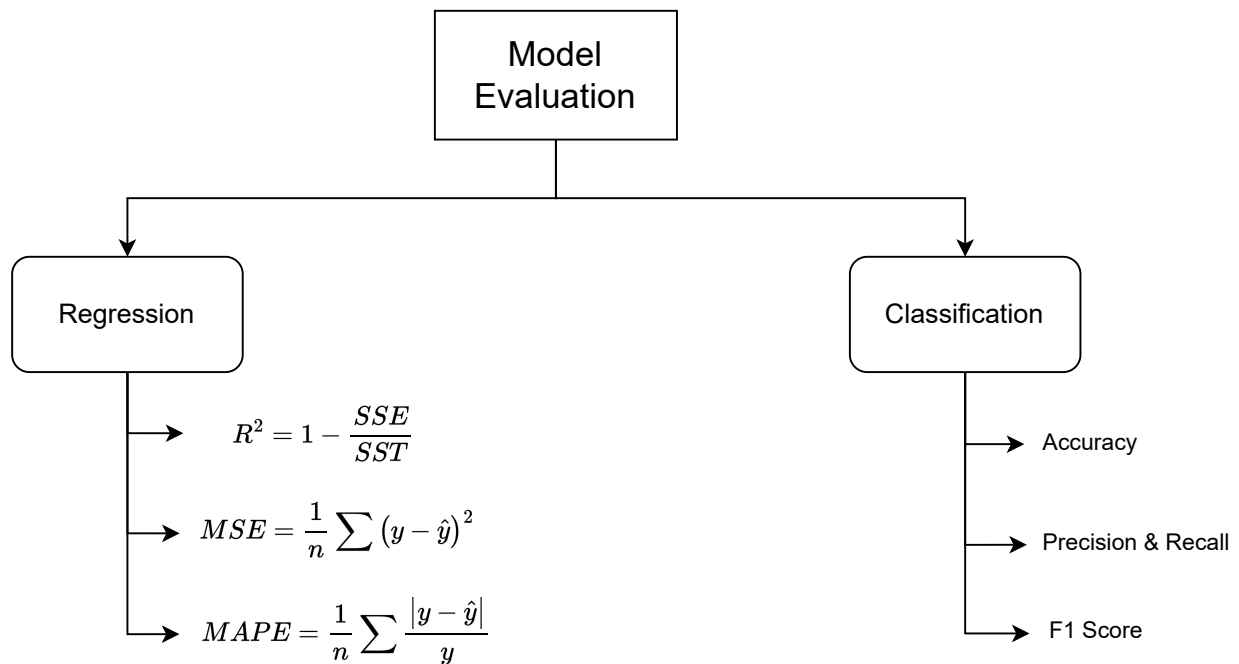
Create Numerical & Categorical Pipelines



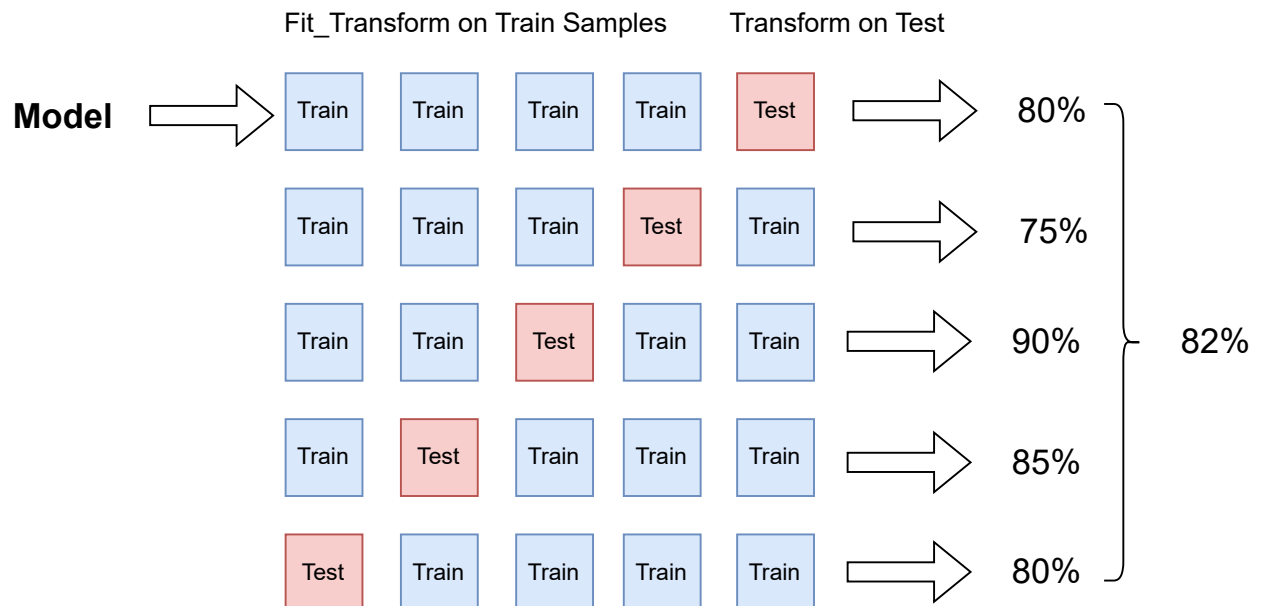
3 ColumnTransformer to Assign columns to be processed

```
preprocessing = ColumnTransformer(transformers=[ ('Numerical', num_pipeline, Num_cols),
('Ordinal', ordinal_pipeline, ['education']),
('OHE', OHE_pipeline, ['parent1', 'mstatus', 'gender', 'car_use', 'car_type', 'red_car', 'revoked']),
('BE', BE_pipeline, ['occupation'])
])
```

4 Model Selection & Evaluation



5 Cross Validation & Hyperparameter Tuning



- 1 Label
- 2 Label
- 3 Label
- 4 Label
- 5 Label