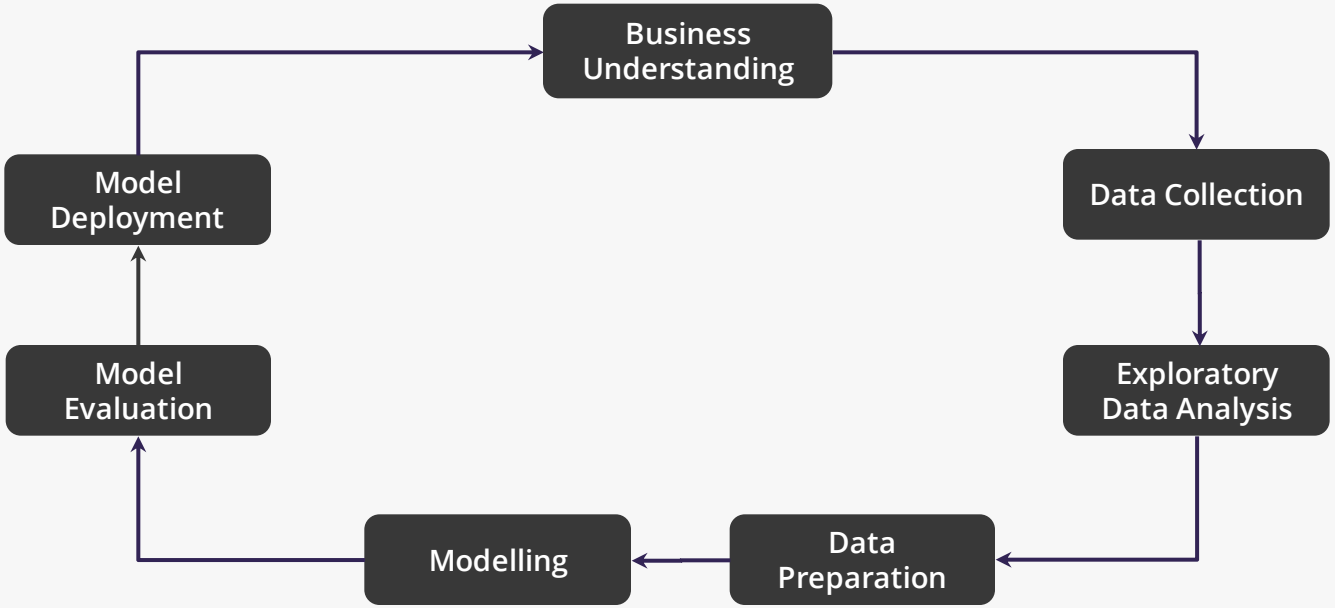
Machine Learning Workflow



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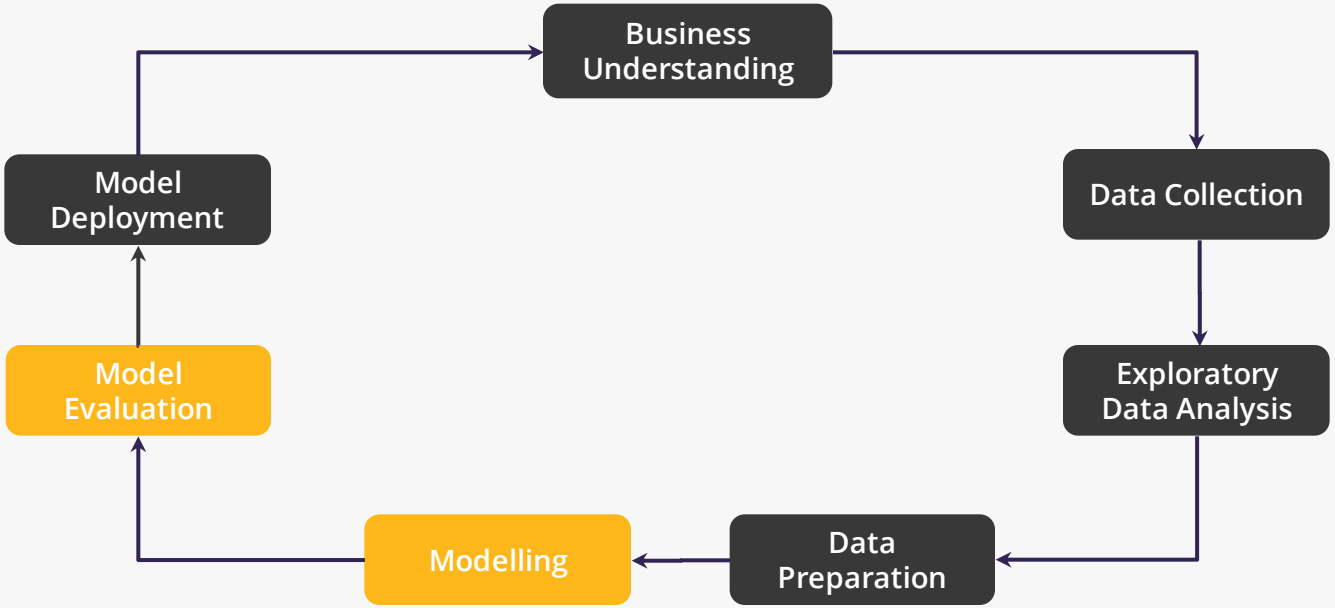
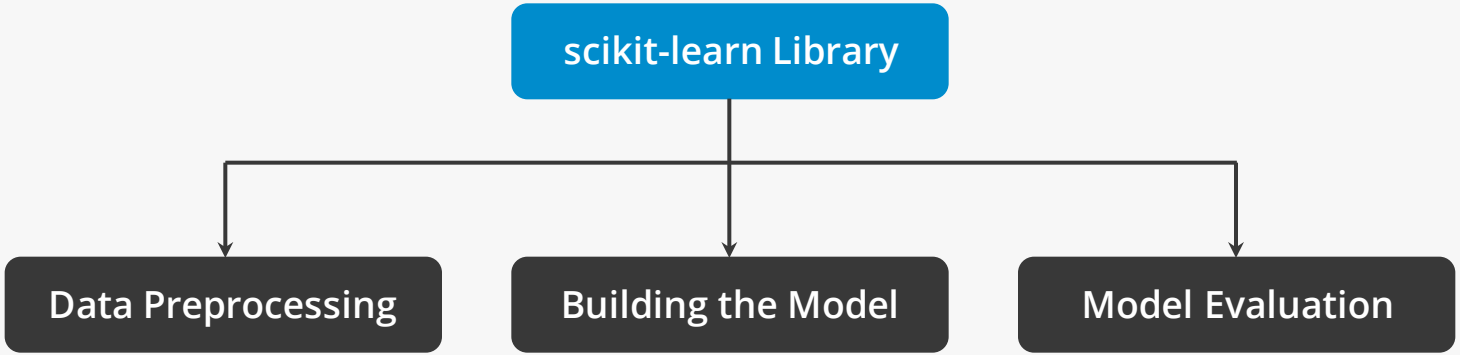
Machine Learning Workflow



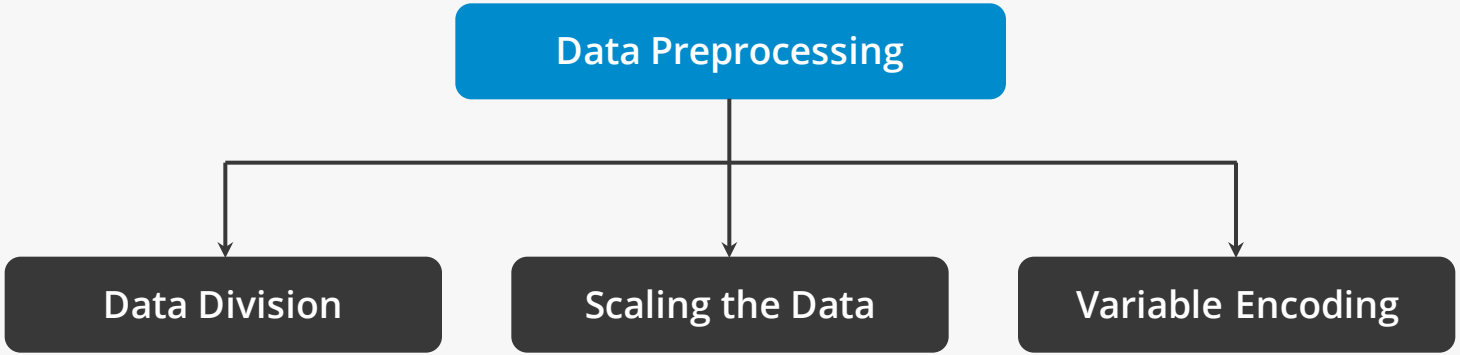
scikit-learn Library

scikit-learn Library



Data Preprocessing in scikit-learn Library

Data Preprocessing in scikit-learn



Data Division using scikit-learn

- `from sklearn.model_selection import train_test split`
- `from sklearn.model_selection import KFold`

Scaling the Data using scikit-learn

- `from sklearn.preprocessing import robust_scale`
- `from sklearn.preprocessing import StandardScaler`

Variable Encoding using scikit-learn

- `from pandas import get_dummies`
- `from sklearn.preprocessing import OneHotEncoder`
- `from sklearn.preprocessing import LabelEncoder`

Building a Model Using scikit-learn Library

Building a Model using scikit-learn

- ```
  #Import the necessary class
  from sklearn.neighbors import KNeighborsClassifier
  ```

- ```
  #Setting the value for k or neighbors at 5
  knn_model = KNeighborsClassifier(5)
  ```

Building a Model using scikit-learn

- ```
  #Training the model with train data
  knn_model.fit(x_train_scaled,y_scaled)
  ```

- ```
  #Making predictions on the test data
  y_pred = knn_model.predict(x_test_scaled)
  ```

Model Evaluation Using scikit-learn Library

Model Evaluation using scikit-learn

- `from sklearn.metrics import accuracy_score`