Python Libraries:

* Numpy – Used for numerical operations like working with arrays and matrices.
* Pandas – Used for data manipulation and analysis.
* Matplotlib.pyplot – Used for creating static, interactive, and animated visualizations.
* Seaborn – Used for visualization based on matplotlib that provides a high-level interface for drawing attractive statistical graphics.
* Sklearn – Provides diverse algorithms for classification, regression, clustering, and dimensionality reduction.
  + StratifiedShuffleSplit – Used for stratified sampling to ensure the training and test sets have the same percentage of samples of each target class as the complete set.
  + BaseEstimator – Base class used to create custom transformers with methods fit() and transform().
  + TransformerMixin – Base class used to create custom transformers with methods fit() and transform().
  + OneHotEncoder – Converts categorical variable(s) into a form that could be provided to ML algorithms to do a better job in prediction.
  + Pipeline – Helps assemble several steps that can be cross-validated together while setting different parameters.
  + StandardScaler – Standardizes features by removing the mean and scaling to unit variance.
  + RandomForestClassifier – Ensemble learning method for classification that operates by constructing a multitude of decision trees at training time.
  + GridSearchCV – Method for tuning hyperparameters to find the best model performance.