

Python Packages

```
1 import numpy as np
2 import pandas as pd
3 import pickle
4 import seaborn as sns
5 import matplotlib.pyplot as plt
6 matplotlib inline
7
8 import sklearn
9 from sklearn.preprocessing import LabelEncoder
10 from sklearn.tree import DecisionTreeClassifier
11 from sklearn.ensemble import Gradient BoostingClassifier, RandomForestClassifier
12 from sklearn.neighbors import KNeighborsClassifier
13 from sklearn.model_selection import RandomizedSearchCV
14 from xgboost import XGBClassifier
15 from sklearn.ensemble import RandomForestClassifier
16 import imblearn
17 from imblearn.under_sampling import Random UnderSampler
18 from sklearn.model_selection import train_test_split
19 from sklearn.preprocessing import scale
20 from sklearn.preprocessing import StandardScaler
21 from sklearn.metrics import accuracy_score, classification_report, confusion_matrix, f1_score
```