Random_Forest

```
import numpy as np
            import matplotlib.pyplot as plt
            import matplotlib.colors
            import pandas as pd
            from sklearn.model selection import train test split
            from sklearn.metrics import accuracy score, mean squared error, log loss
            from tqdm import tqdm_notebook
            import seaborn as sns
            import imageio
            import time
            from IPython.display import HTML
            #from sklearn.preprocessing import OneHotEncoder
            from sklearn.ensemble import RandomForestRegressor
            from sklearn.preprocessing import StandardScaler
            from sklearn.ensemble import RandomForestClassifier
            from sklearn.datasets import make blobs
In [ ]: ▶ #data = pd.read csv('Final Refined OneHotEncoded.csv')
            data = pd.read csv('Final Refined Encoded Normalysed.csv')
           data.head(20)
In [ ]:
        # Saperating the Target Column
In [ ]:
            X, y = data.iloc[:, :-1], data.iloc[:, -1]
In [ ]:
       # Test-Train Split
            X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, rand
       # Standard-Scalar
In [ ]:
            scaler = StandardScaler()
            X train = scaler.fit transform(X train)
            X test = scaler.transform(X test)
In [ ]:
       # Training Function
            def train_model(X_train, y_train, X_test, y_test, classifier, **kwargs):
                model = classifier(**kwargs)
                model.fit(X train,y train)
                # check accuracy and print out the results
               fit accuracy = model.score(X train, y train)
                test accuracy = model.score(X test, y test)
                print(f"Train accuracy: {fit_accuracy:0.2%}")
                print(f"Test accuracy: {test accuracy:0.2%}")
                return model
```

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