Random Forest Regression

Importing the libraries

```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
```

▼ Importing the dataset

```
dataset = pd.read_csv('/content/Data.csv')
X = dataset.iloc[:, :-1].values
y = dataset.iloc[:, -1].values
```

Splitting the dataset into the Training set and Test set

```
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.2, random_state = 0)
```

Training the Random Forest Regression model on the whole dataset

Predicting the Test set results

```
y_pred = regressor.predict(X_test)
np.set_printoptions(precision=2)
print(np.concatenate((y_pred.reshape(len(y_pred),1), y_test.reshape(len(y_test),1)),1))
```

```
[433.78 431.23]
[457.99 460.01]
[463.14 461.14]
...
[470.16 473.26]
[439.51 438.]
[460.32 463.28]]
```

Evaluating the Model Performance

```
from sklearn.metrics import r2_score
r2_score(y_test, y_pred)
```

□→ 0.9615980699813017