

Start coding or [generate](#) with AI.

## Import Libraries


```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
from sklearn.tree import DecisionTreeRegressor
```

## Importing the dataset

```
df = pd.read_csv('Position_Salaries.csv')
X = df.iloc[:, 1:-1].values
y = df.iloc[:, -1].values
```


## Training the Decision Tree Regression model on the whole dataset

```
dt = DecisionTreeRegressor(random_state=0)
dt.fit(X, y)
```

 `DecisionTreeRegressor`  
`DecisionTreeRegressor(random_state=0)`

## Predicting a new result

```
predicting_new_result = dt.predict([[6.5]])
print(predicting_new_result)
```

 `[150000.]`

## Visualising the Decision Tree Regression

Suggested code may be subject to a license | [vmpellos/Machine-Learning-A-Z--Hands-On-Python---R-In-Data-Science--Codes-and-Datasets-](#)

```
x_grid = np.arange(min(X), max(X), 0.01)
x_grid = x_grid.reshape((len(x_grid), 1))
plt.scatter(X, y, color='red')
plt.plot(x_grid, dt.predict(x_grid), color='blue')
plt.title('Truth or Bluff (Decision Tree Regression)')
plt.xlabel('Position level')
plt.ylabel('Salary')
plt.show()
```



```
9b14dea5>:1: DeprecationWarning: Conversion of an array with ndim > 0 to a scalar is deprecated  
nin(X), max(X), 0.01)
```

ith or Bluff (Decision Tree Regression)

