```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import LabelEncoder, StandardScaler


data=pd.read_csv("/content/Admission_Predict.csv")

data.head()
```

	Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
0	1	337	118	4	4.5	4.5	9.65	1	0.92
1	2	324	107	4	4.0	4.5	8.87	1	0.76
2	3	316	104	3	3.0	3.5	8.00	1	0.72
3	4	322	110	3	3.5	2.5	8.67	1	0.80
4	5	314	103	2	2.0	3.0	8.21	0	0.65

Next steps: Generate code with data | View recommended plots | New interactive sheet

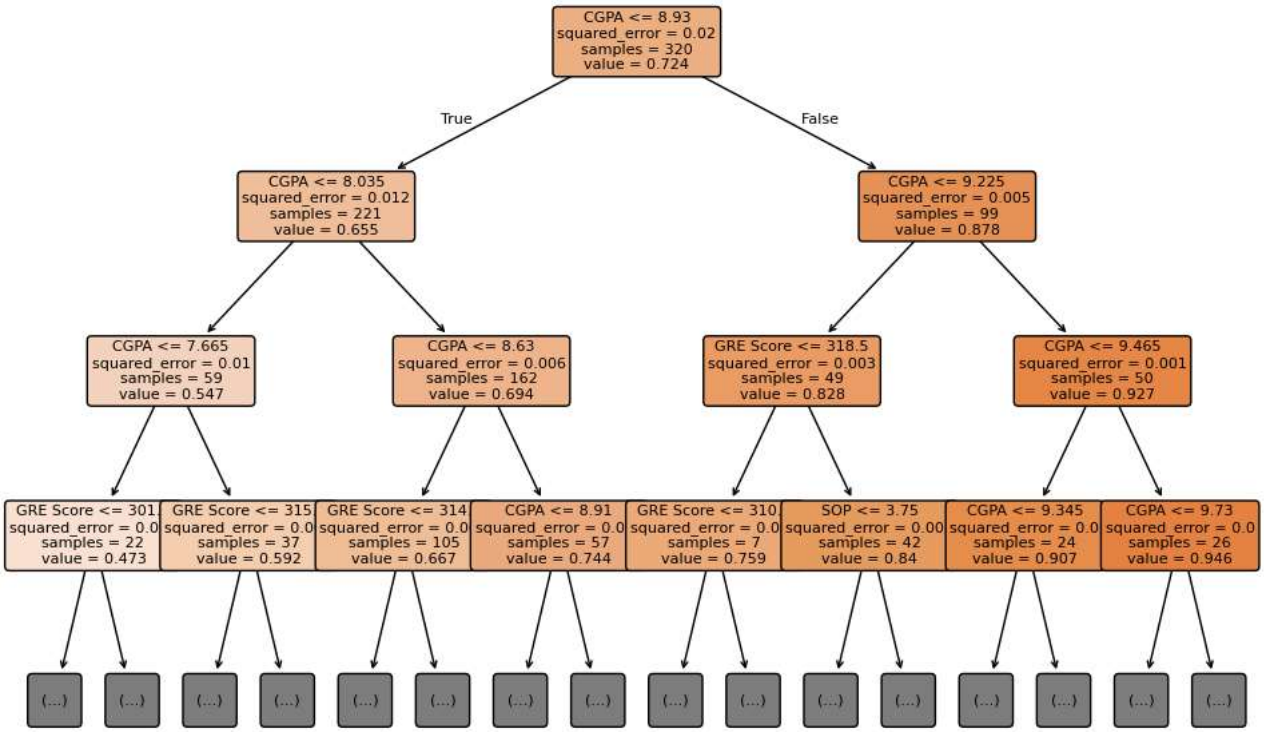
```
from sklearn.model_selection import train_test_split

X=data[["GRE Score","TOEFL Score","University Rating","SOP","LOR ","CGPA","Research"]];
Y=data[["Chance of Admit "]];

xtrain,xtest,ytrain,ytest=train_test_split(X,Y,test_size=0.2)

from sklearn.tree import DecisionTreeRegressor

model=DecisionTreeRegressor()

model.fit(xtrain,ytrain)
```

```
DecisionTreeRegressor
DecisionTreeRegressor()
```

```
prediction = model.predict(xtest)

from sklearn.metrics import mean_squared_error

mse=mean_squared_error(ytest,prediction)

print(mse)
```

```
0.010523749999999998
```

```
from sklearn.tree import plot_tree

plt.figure(figsize=(12,8))
plot_tree(model,fontsize=8,feature_names=X.columns,max_depth=3,filled=True,rounded=True)
plt.show()
```



Start coding or generate with AI.

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