

```
import pandas as pd
```

```
df=pd.read_csv("Admission_Predict.csv")
```

```
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder, StandardScaler
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import classification_report, confusion_matrix
import matplotlib.pyplot as plt
import seaborn as sns
```

```
df.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 df](#)
[View recommended plots](#)
[New interactive sheet](#)

df

	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
...	...	...	...	...	...	...	...	...	...
395	396	324	110	3	3.5	3.5	9.04	1	0.82
396	397	325	107	3	3.0	3.5	9.11	1	0.84
397	398	330	116	4	5.0	4.5	9.45	1	0.91
398	399	312	103	3	3.5	4.0	8.78	0	0.67
399	400	333	117	4	5.0	4.0	9.66	1	0.95

400 rows × 9 columns

Next steps:

[Generate code with df](#)
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[New interactive sheet](#)

```
print(df.isnull().sum())
```

```
Serial No.      0
GRE Score      0
TOEFL Score    0
University Rating 0
SOP            0
LOR            0
CGPA           0
Research       0
Chance of Admit 0
dtype: int64
```

```
df.columns
```

```
Index(['Serial No.', 'GRE Score', 'TOEFL Score', 'University Rating', 'SOP',
      'LOR ', 'CGPA', 'Research', 'Chance of Admit '],
      dtype='object')
```

```
df.dtypes
```

```

0
Serial No.      int64
GRE Score       int64
TOEFL Score     int64
University Rating int64
SOP             float64
LOR             float64
CGPA            float64
Research        int64
Chance of Admit float64

dtype: object

```

```
df = df.drop(columns=['Serial No.'])
```

```
print(df.isnull().sum())
```

```

GRE Score      0
TOEFL Score    0
University Rating 0
SOP            0
LOR            0
CGPA           0
Research       0
Chance of Admit 0
dtype: int64

```

```
df['Chance of Admit '] = df['Chance of Admit '].apply(lambda x: 1 if x >= 0.75 else 0)
```

```

features = ['GRE Score', 'TOEFL Score', 'University Rating', 'SOP', 'LOR ', 'CGPA', 'Research']
X = df[features]
y = df['Chance of Admit ']

```

```

scaler = StandardScaler()
X_scaled = scaler.fit_transform(X)

```

```
X_train, X_test, y_train, y_test = train_test_split(X_scaled, y, test_size=0.3, random_state=42)
```

```

clf = DecisionTreeClassifier(random_state=42)
clf.fit(X_train, y_train)

```

```

DecisionTreeClassifier
DecisionTreeClassifier(random_state=42)

```

```
y_pred = clf.predict(X_test)
```

```
print(classification_report(y_test, y_pred))
```

```

precision    recall  f1-score   support

0           0.92      0.78      0.85         74
1           0.72      0.89      0.80         46

accuracy          0.82
macro avg          0.84
weighted avg       0.84

```

```
cm = confusion_matrix(y_test, y_pred)
```

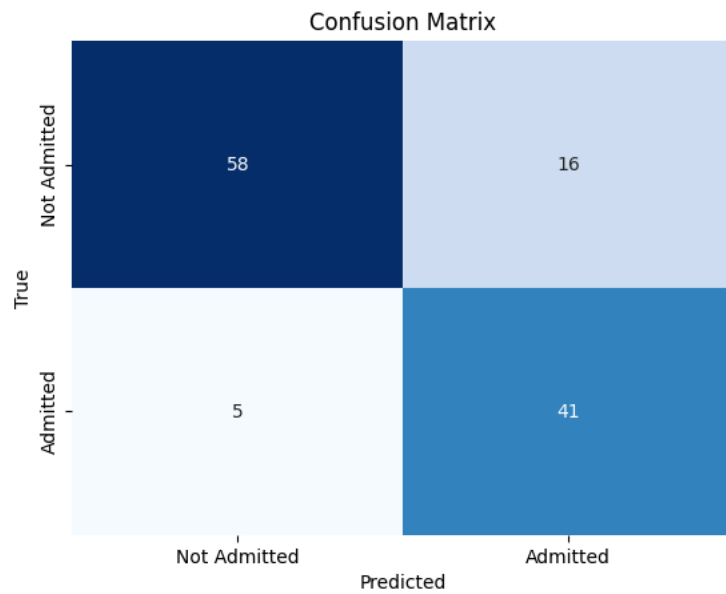
```
plt.figure(figsize=(8, 6))
```

```

<Figure size 800x600 with 0 Axes>
<Figure size 800x600 with 0 Axes>

```

```
sns.heatmap(cm, annot=True, fmt='d', cmap='Blues', cbar=False,xticklabels=['Not Admitted', 'Admitted'],yticklabels=['Not Admitted', 'Admitted'],  
plt.xlabel('Predicted')  
plt.ylabel('True')  
plt.title('Confusion Matrix')  
plt.show()
```



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