colab.research.google.com/drive/1A5AmEf_K1AJKjZ0HapF_-F3qfNGyUwdH#scrollTo=nmwiHmAtzDlr

Gmail   YouTube   Maps   Adobe Acrobat

Untitled5.ipynb
File Edit View Insert Runtime Tools Help

Commands   + Code   + Text   Run all

```python
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score
from sklearn.preprocessing import LabelEncoder
```

```python
from google.colab import files
uploaded = files.upload()
```

Choose Files   drug exposure.xlsx
drug exposure.xlsx(application/vnd.openxmlformats-officedocument.spreadsheetml.sheet) - 343848 bytes, last modified: 12/14/2025 - 100% done
Saving drug exposure.xlsx to drug exposure.xlsx

```python
data = pd.read_excel("drug exposure.xlsx")
```

```python
label = LabelEncoder()

for col in data.columns:
    if data[col].dtype == "object":
```

Variables   Terminal

Untitled5.ipynb ☆ ⌂
File Edit View Insert Runtime Tools Help

🔍 Commands + Code ▾ + Text │ ▷ Run all ▾

```python
            data[col] = label.fit_transform(data[col])
```

```python
X = data.drop("drug_name", axis=1)
y = data["drug_name"]

X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42
)
```

```python
model = DecisionTreeClassifier()
model.fit(X_train, y_train)
```

▾ DecisionTreeClassifier ❶ ❷
DecisionTreeClassifier()

```python
y_pred = model.predict(X_test)

accuracy = accuracy_score(y_test, y_pred)
print("Accuracy =", accuracy)
```

••• Accuracy = 0.21666666666666667

{} Variables   ⤓ Terminal   ✓ 10:28 PM