

## ▼ New Section

Double-click (or enter) to edit

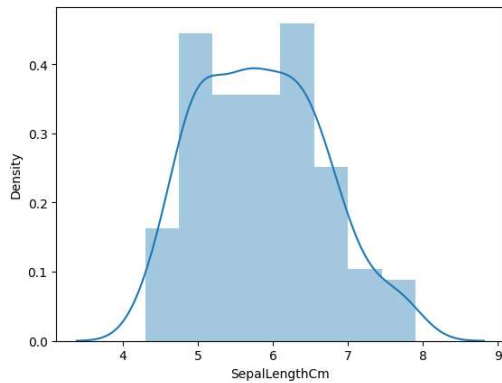
```
sns.distplot(data['SepallengthCm'])
```

```
<ipython-input-30-cc4dca1bb6c5>:1: UserWarning:
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750b8e5751
```

```
sns.distplot(data['SepallengthCm'])
<Axes: xlabel='SepallengthCm', ylabel='Density'>
```



```
import pandas as pd
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
```

```
# Load data from CSV file
data = pd.read_csv('')
```

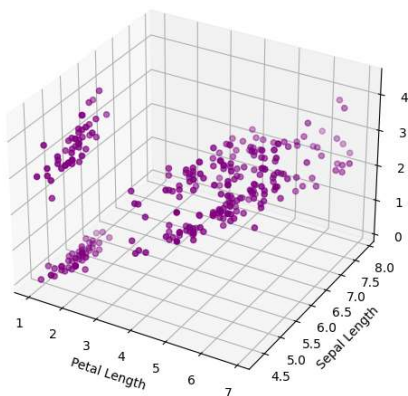
```
# Extract data columns
Species = df['Species']
PetalLengthCm = df['PetalLengthCm']
SepallengthCm = df['SepallengthCm']
PetalWidthCm = df['PetalWidthCm']
SepalWidthCm = df['SepalWidthCm']
```

```
# Create a 3D plot
fig = plt.figure(figsize=(17,6))
ax = fig.add_subplot(111, projection='3d')
```

```
# Scatter plot
ax.scatter(PetalLengthCm,SepallengthCm ,PetalWidthCm,c='purple')
ax.scatter(PetalLengthCm,SepallengthCm ,SepalWidthCm,c='purple')
```

```
# Set axis labels
ax.set_xlabel('Petal Length')
ax.set_ylabel('Sepal Length')
ax.set_zlabel('PetalWidthCm',)
```

```
# Show the plot
plt.show()
```



```
import pandas as pd
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
import numpy as np
```

```
# Load data from CSV file
df = pd.read_csv('/content/sample_data/project (2).csv')
```

```
# Extract data columns
species = df['Species']
petallength = df['PetalLengthCm']
sepallength = df['SepallengthCm']
petalwidth = df['PetalWidthCm']
sepewidth = df['SepalWidthCm'].astype('float')
```

```
# Create a mesh grid
petallength_range = np.linspace(min(petallength), max(petallength), 100)
sepallength_range = np.linspace(min(sepallength), max(sepallength), 100)
petallength_mesh, sepallength_mesh = np.meshgrid(petallength_range, sepallength_range)
```

```

# Set the figure size
fig = plt.figure(figsize=(10, 8))
ax = fig.add_subplot(111, projection='3d')

# Plot the mesh grid
ax.plot_surface(petallength_mesh, sepalength_mesh, np.zeros_like(petallength_mesh), alpha=0.2, color='gray', cmap=plt.cm.coolwarm)
# Set axis labels
ax.set_xlabel('Petal Length')
ax.set_ylabel('Sepal Length')
ax.set_zlabel('Petal Width', rotation=90)

# Show the plot
plt.show()

```

