example

May 14, 2023

[ ]:
```
# Convert ipynb to PDF
!jupyter nbconvert --to pdf example.ipynb
```

[ ]:
```
import platform
import os
import sys

print(f"Python Interpreter: {sys.executable}")
print(f"Python Version: {platform.python_version()}")
print()
print(f"Working Directory: {os.getcwd()}")
print()
print(f"Platform")
print(f"    System: {platform.system()}")
print(f"    Release: {platform.release()}")
print(f"    Version: {platform.version()}")
```

[ ]:
```
import matplotlib.pyplot as plt
import pandas as pd

# LOAD
url = "https://raw.githubusercontent.com/datasciencedojo/datasets/master/
 ↪titanic.csv"
titanic = pd.read_csv(url)

# PREPARE
survived = titanic[titanic['Survived'] == 1]['Age'].dropna()
not_survived = titanic[titanic['Survived'] == 0]['Age'].dropna()

# VISUALIZE
fig, ax = plt.subplots()
ax.violinplot([survived, not_survived], showmeans=True)
ax.set_xticks([1, 2])
ax.set_xticklabels(['Survived', 'Not Survived'])
ax.set_ylabel('Age')
ax.set_title('Violin Plot using Matplotlib')
plt.show()
```

[ ]:
```
import matplotlib.pyplot as plt
import seaborn as sns

# LOAD
titanic = sns.load_dataset("titanic")

# VISUALIZE
sns.violinplot(x="survived", y="age", data=titanic, inner="quartile")
plt.xlabel("Survived")
plt.ylabel("Age")
plt.title("Violin Plot using Seaborn")
plt.show()
```