Streamlit Dashboards with Kaggle Data

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↑ Streamlit Dashboards with Kaggle Data

Exercise 1: 3A_Optimal Data Visualization

1. Download the exercises if you haven't
2. Decompress the folder 📂 `course-resolving-python-data-analysis-Visualization`
3. Open `jupyter lab`
4. Look for the file `03A_…ipynb`

```
course-resolving-python-data-analysis-visualization/

01_Getting Started with Data Visualization/03_Optimal Data Visualization/03A_Optimal.ipynb
```

Hint
Use plotly to create interactive data visualizations: · Snippet · Fill the parameters with the appropriate objects from t...

↑ Exercise 1: 3A_Optimal Data Visualization

Hint

Use plotly to create interactive data visualizations:

```
import plotly.express as px
px.
```

Fill the parameters with the appropriate objects from the DataFrame.

```
import plotly.express as px
px.function # Press [SHIFT] + [TAB]
```

Exercise 2: Kaggle Data

1. Download data from Kaggle
   Search for a topic of your interest · Download a csv file
2. Import data in Python
   Create a folder for the project · Move the data file to the folder · Open jupyter lab and open a new Python notebook · I...
3. Create visualization with plotly
   Snippet

Download data from Kaggle

1. Search for a topic of your interest
2. Download a csv file

Import data in Python

1. Create a folder for the `project`
2. Move the data file to the folder
3. Open `jupyter lab` and open a new Python notebook
4. Import the data file
   If the file is: · CSV · Snippet · Excel · Snippet

Import the data file

If the file is:

1. CSV

```
import pandas as pd
pd.read_csv("data.csv")
```

2. Excel

```
import pandas as pd
pd.read_excel("data.xlsx")
```

↑ Exercise 2: Kaggle Data

Create visualization with plotly

```
import plotly.express as px
px. # Press [TAB] in the keyboard
```

↑ Streamlit Dashboards with Kaggle Data

Streamlit

Streamlit is a Python library to create Dashboard applications.

Example
Create a python file app.py · Snippet · In the terminal (Anaconda Prompt) · Snippet

↑ Streamlit

Example

1. Create a python file `app.py`

```
import streamlit as st
import pandas as pd
import plotly.express as px

df = pd.read_csv("data.csv")

fig = px.scatter(
  data_frame=df, x="column1", y="column2")

st.plotly_chart(fig)
```

2. In the terminal (Anaconda Prompt)

```
cd "path/to/folder"
streamlit run app.py
```

↑ Streamlit Dashboards with Kaggle Data

Exercise 3: Streamlit Dashboard

Create a dashboard with the data visualization you created in the previous exercise.