



✓ **Congratulations! You passed!**

TO PASS 80% or higher

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Graded Quiz: Test your Project Understanding

LATEST SUBMISSION GRADE

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1. In the *Build a Data Science Web App with Streamlit and Python* hands-on project, we used HTML to build parts of a webpage. True or False?

1 / 1 point

☐ True

☒ False

✓ **Correct**

Correct! The entire webpage for the application was build in pure Python with Streamlit. Ex: Rather than explicitly writing HTML tags to title the page, we used **st.title** instead.

2. Which of the following Python libraries, besides Streamlit, did we use in our data science web app? (Select all that apply)

1 / 1 point

☐ seaborn

☒ pydeck

✓ **Correct**

Correct! We used the pydeck library, which is a set of Python bindings for making spatial visualizations with deck.gl, in Tasks 6 and 7 to create a 3D interactive map of motor vehicle collisions in New York City.

☒ NumPy

✓ **Correct**

Good job! We used NumPy in Task 6 of this hands-on project to calculate the average latitude and longitude in the dataset.

☒ pandas

✓ **Correct**

Correct! We used pandas extensively to load and manipulate data.

☒ Plotly Express

✓ **Correct**

Correct! We used Plotly Express in Task 8 of this hands-on project to produce a bar chart of the number of motor vehicle collisions every minute of a given hour.

3. Does Streamlit support Markdown?

1 / 1 point

☒ Yes

☐ No

✓ **Correct**

Correct! Streamlit does support displaying strings formatted as Markdown, using a call to **st.markdown**. We used Markdown in Tasks 2 and 4 of this hands-on project.

1 / 1 point

4. In the following code-snippet, a dataset is loaded into a pandas dataframe and the NA values are dropped when the `load_data()` is called. The `load_data()` function is called **twice**: first after the function definition and the second time after missing values are counted. How many times do you think the entire dataset is loaded into a pandas dataframe using the `read_csv()` function?

```
1 @st.cache(persist=True)
2 def load_data():
3     data = pd.read_csv('dataset.csv')
4     data.dropna(inplace=True)
5     return data
6
7 df = load_data()
8 count_missing_vals = df.isnull().sum()
9 df = load_data()
```

- ☒ Once
- ☐ Twice
- ☐ None of the above

✓ Correct

Good job! It is loaded only once, even though the `load_data()` function was called twice. This is because we marked the function with Streamlit's cache annotation. As neither the name of the function, the code that makes up the function, nor its input parameters changed, Streamlit knows to skip executing the function altogether. Instead, it just reads the output from the local cache and passes it on to the caller.

1 / 1 point

5. You have just written Python code for your new data science web app with Streamlit and saved the code to a file called `app.py`. How do you run the app from a terminal?

- ☐ `streamlit app.py`
- ☐ `streamlit.py run app.py`
- ☒ `streamlit run app.py`

✓ Correct

Correct!