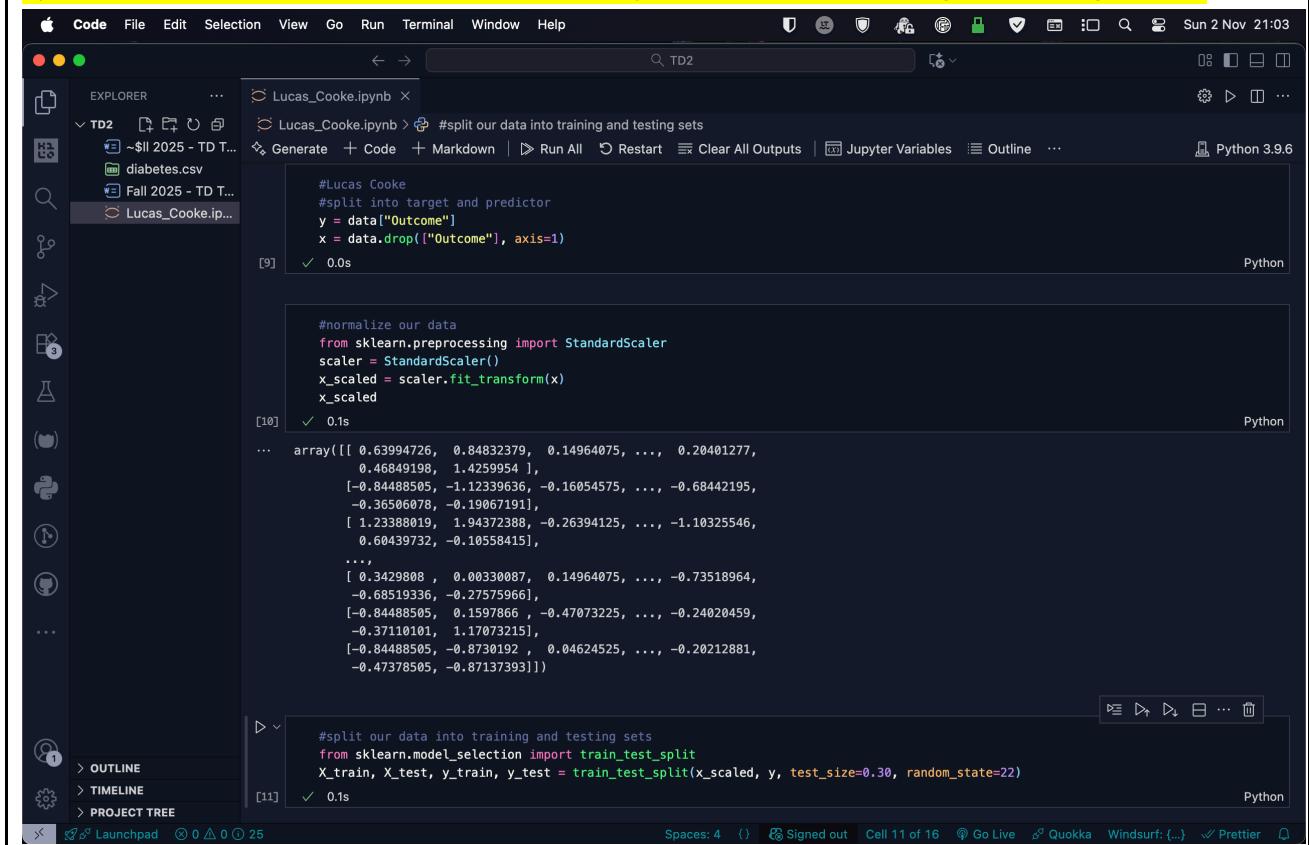


Name: **Lucas Cooke**

MAKE SURE EACH SCREENSHOT SHOWS YOUR NAME SOMEWHERE

- 1) Include a screenshot of the code showing how you separated your dataset into target (y) and predictor (X) variables. **✓**
- 2) Include a screenshot showing that you normalized/scaled your predictor variables. **✓**
- 3) Include a screenshot of the code that splits your dataset into training and testing sets. **✓**



The screenshot shows a Jupyter Notebook interface with the following code cells:

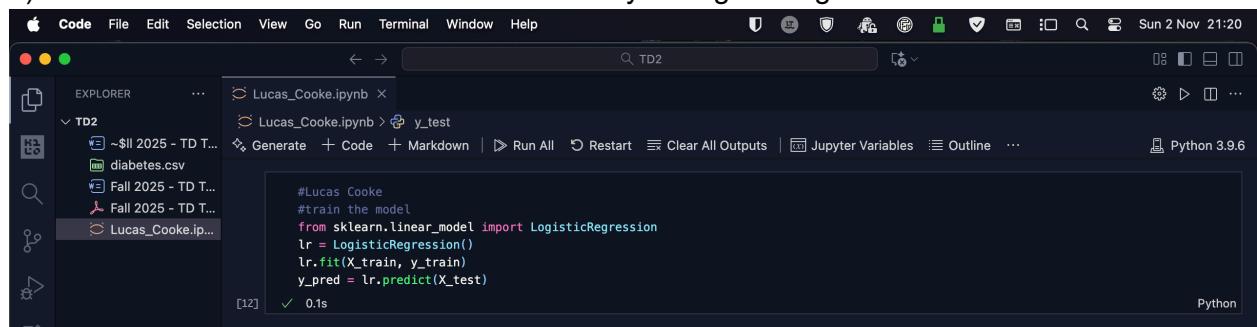
```
#Lucas Cooke
#split into target and predictor
y = data["Outcome"]
x = data.drop(["Outcome"], axis=1)
0.0s
```

```
#normalize our data
from sklearn.preprocessing import StandardScaler
scaler = StandardScaler()
x_scaled = scaler.fit_transform(x)
x_scaled
0.1s
```

```
array([[ 0.63994726,  0.84832379,  0.14964075, ...,  0.20401277,
       0.46849198,  1.4259954 ],
       [-0.84488505, -1.12339636, -0.16054575, ..., -0.68442195,
       -0.36506078, -0.19067191],
       [ 1.23388019,  1.94372388, -0.26394125, ..., -1.10325546,
       0.60439732, -0.10558415],
       ...,
       [ 0.3429808 ,  0.00330087,  0.14964075, ..., -0.73518964,
       -0.68519336, -0.27575966],
       [-0.84488505,  0.1597866 , -0.47073225, ..., -0.24020459,
       -0.37110101,  1.17073215],
       [-0.84488505, -0.8730192 ,  0.04624525, ..., -0.20212881,
       -0.47378505, -0.87137393]])
```

```
#split our data into training and testing sets
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(x_scaled, y, test_size=0.30, random_state=22)
0.1s
```

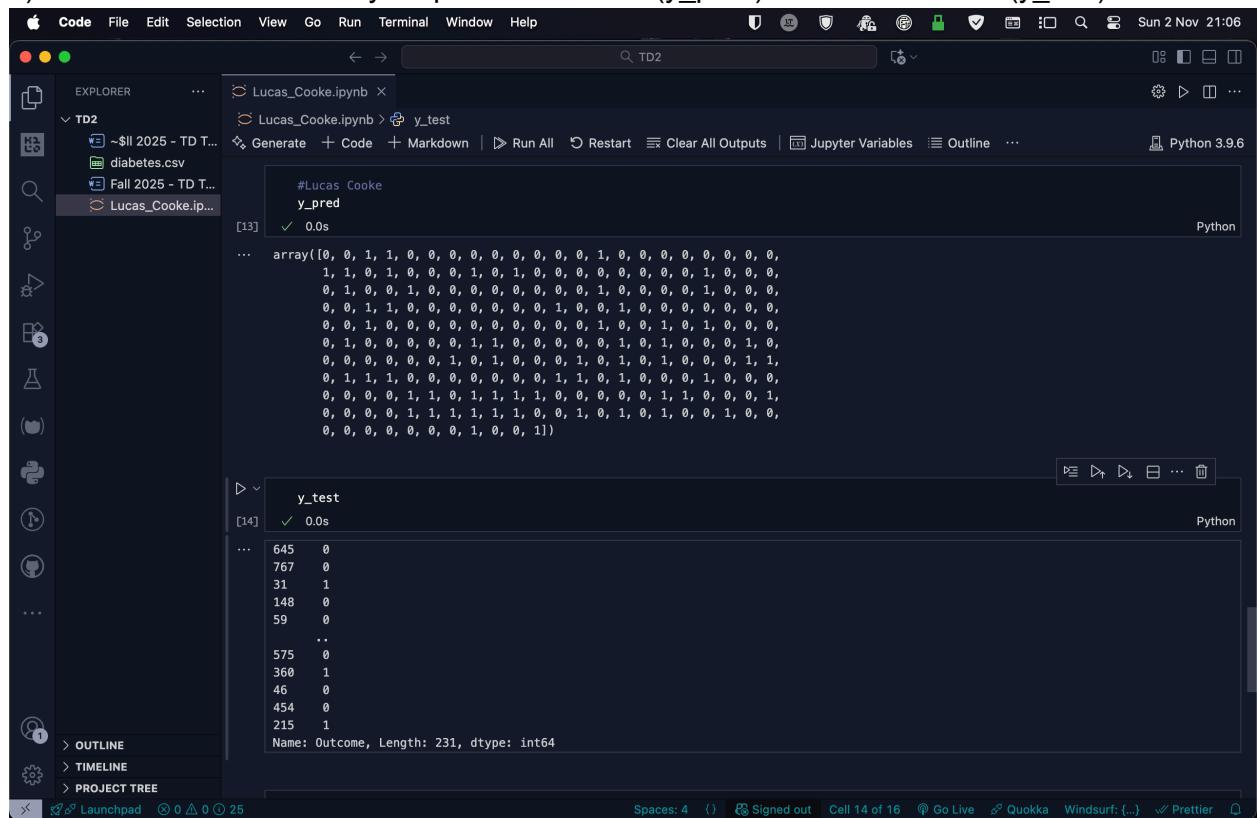
- 4) Include a screenshot of the code that trains your logistic regression model.



The screenshot shows a Jupyter Notebook interface with the following code cell:

```
#Lucas Cooke
#train the model
from sklearn.linear_model import LogisticRegression
lr = LogisticRegression()
lr.fit(X_train, y_train)
y_pred = lr.predict(X_test)
0.1s
```

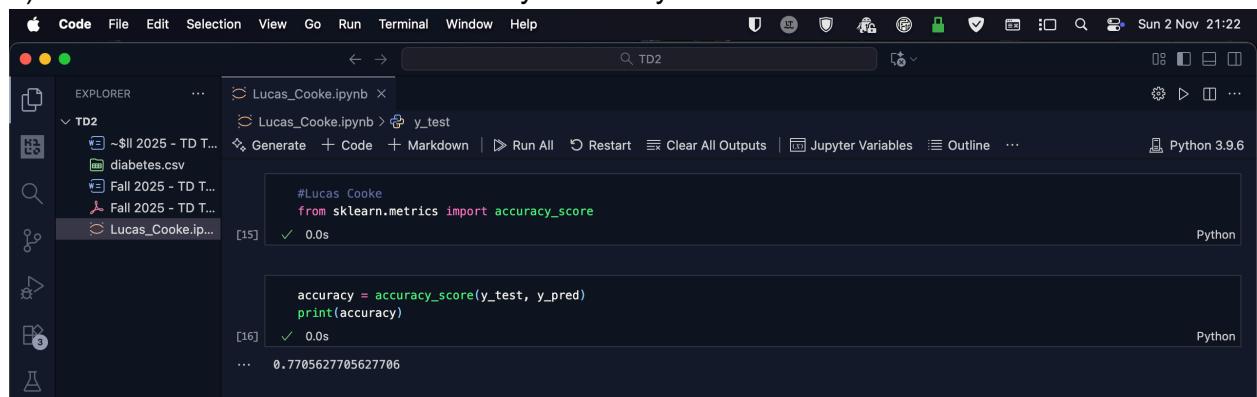
5) Include a screenshot of your predicted values (y_pred) and actual values (y_test).



The screenshot shows a Jupyter Notebook interface with the following details:

- File Explorer:** Shows a folder structure including 'TD2', 'diabetes.csv', and 'Lucas_Cooke.ipynb'.
- Code Cell 13:** Displays the variable `y_pred` with a value of 0.0s. The output is a large array of 0s and 1s.
- Code Cell 14:** Displays the variable `y_test` with a value of 0.0s. The output is a list of 0s and 1s, with a note: "Name: Outcome, Length: 231, dtype: int64".
- Bottom Status Bar:** Shows "Spaces: 4", "Signed out", "Cell 14 of 16", "Go Live", "Quokka", "Windsurf: (...)", "Prettier", and a "Run" button.

6) Include a screenshot of the accuracy score of your model.



The screenshot shows a Jupyter Notebook interface with the following details:

- File Explorer:** Shows a folder structure including 'TD2', 'diabetes.csv', and 'Lucas_Cooke.ipynb'.
- Code Cell 15:** Displays the import statement `#Lucas Cooke
from sklearn.metrics import accuracy_score` and a value of 0.0s.
- Code Cell 16:** Displays the code `accuracy = accuracy_score(y_test, y_pred)
print(accuracy)` and a value of 0.0s. The output is 0.7705627705627706.
- Bottom Status Bar:** Shows "Spaces: 4", "Signed out", "Cell 14 of 16", "Go Live", "Quokka", "Windsurf: (...)", "Prettier", and a "Run" button.