

## Activity 10.2 Progress Report Week 2

### HackerAI

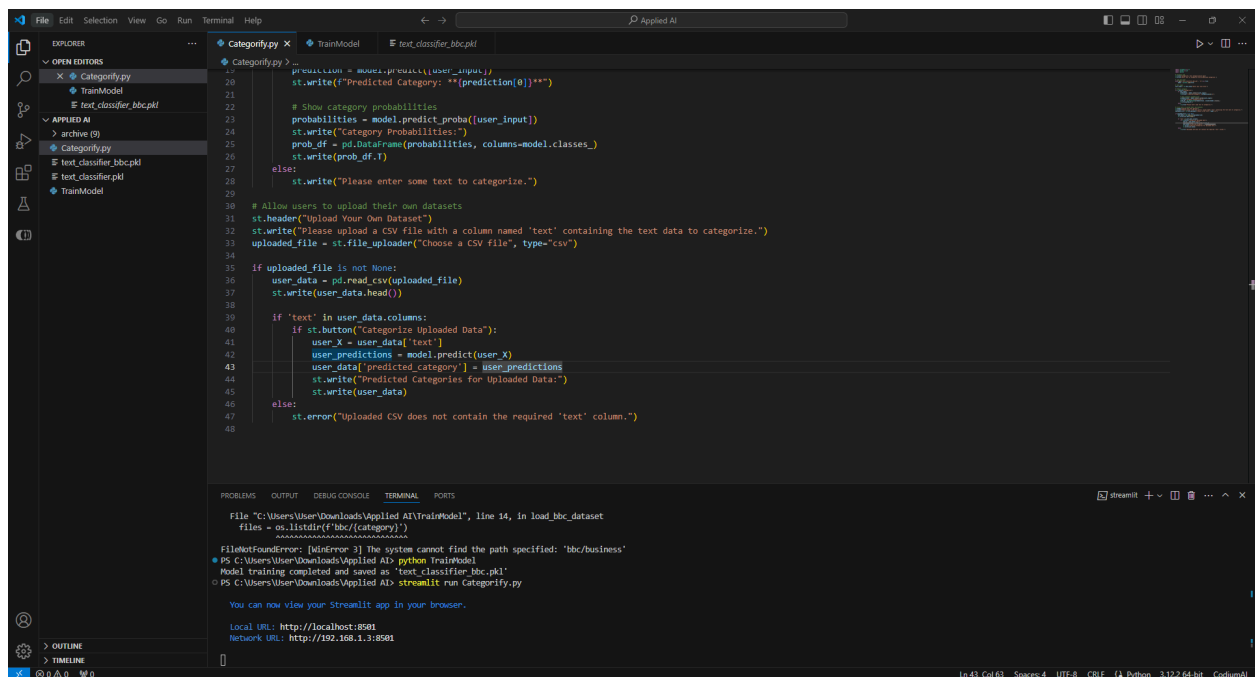
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I am currently working on the functionality aspect of the project. We are testing possible features and we have tried adding things like allowing users to upload their own files and let the project predict. So far it is not fully functional so we might have to change it.



```
Category.py
17 predictions = model.predict([user_input])
18 st.write("Predicted Category: {}".format(predictions[0]))
19
20 # Show category probabilities
21 probabilities = model.predict_proba([user_input])
22 st.write("Category Probabilities:")
23 prob_df = pd.DataFrame(probabilities, columns=model.classes_)
24 st.write(prob_df.T)
25
26 else:
27     st.write("Please enter some text to categorize.")
28
29
30 # Allow users to upload their own datasets
31 st.header("Upload Your Own Dataset")
32 st.write("Please upload a CSV file with a column named 'text' containing the text data to categorize.")
33 uploaded_file = st.file_uploader("Choose a CSV file", type="csv")
34
35 if uploaded_file is not None:
36     user_data = pd.read_csv(uploaded_file)
37     st.write(user_data.head())
38
39     if 'text' in user_data.columns:
40         if st.button("Categorize Uploaded Data"):
41             user_X = user_data['text']
42             user_predictions = model.predict(user_X)
43             user_data['predicted_category'] = user_predictions
44             st.write("Predicted Categories for Uploaded Data:")
45             st.write(user_data)
46         else:
47             st.error("Uploaded CSV does not contain the required 'text' column.")
48
49
50 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
51 File "C:\Users\User\Downloads\Applied AI\TrainModel", line 14, in load_bbc_dataset
52 files = os.listdir(f'bbc/{category}')
53
54 FileNotFoundError: [WinError 2] The system cannot find the path specified: 'bbc/business'
55
56 PS C:\Users\User\Downloads\Applied AI> python TrainModel
57 Model training completed and saved as 'text_classifier_bbc.pkl'
58 PS C:\Users\User\Downloads\Applied AI> streamlit run Category.py
59
60 You can now view your Streamlit app in your browser.
61
62 Local URL: http://localhost:8501
63 Network URL: http://192.168.1.3:8501
```

This is how the upload looks like currently. We are currently using sample data to test.

# Upload Your Own Dataset

Please upload a CSV file with a column named 'text' containing the text data to categorize.

Choose a CSV file



Drag and drop file here

Limit 200MB per file • CSV

Browse files



sample\_data.csv 433.0B



	text	category
0	God is love	religion
1	OpenGL on the GPU is fast	technology
2	NASA launches new satellite	science
3	Jesus Christ is the savior	religion
4	Quantum physics is fascinating	science

Categorize Uploaded Data

Predicted Categories for Uploaded Data:

	text	category	predicted_category
0	God is love	religion	entertainment
1	OpenGL on the GPU is fast	technology	tech
2	NASA launches new satellite	science	tech
3	Jesus Christ is the savior	religion	entertainment
4	Quantum physics is fascinating	science	business
5	Artificial Intelligence is the future	technology	politics
6	Churches are places of worship	religion	sport
7	Advances in biotechnology	science	sport
8	New programming languages are emerging	technology	tech
9	Faith and spirituality are important	religion	sport

The dataset that we used currently does not have 'religion' it tries to predict it is entertainment instead.