AI Assisted Coding LAB ASS-5.4

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BATCH:13

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Task Description #1:

• Prompt GitHub Copilot to generate a Python script that collects

user data (e.g., name, age, email). Then, ask Copilot to add

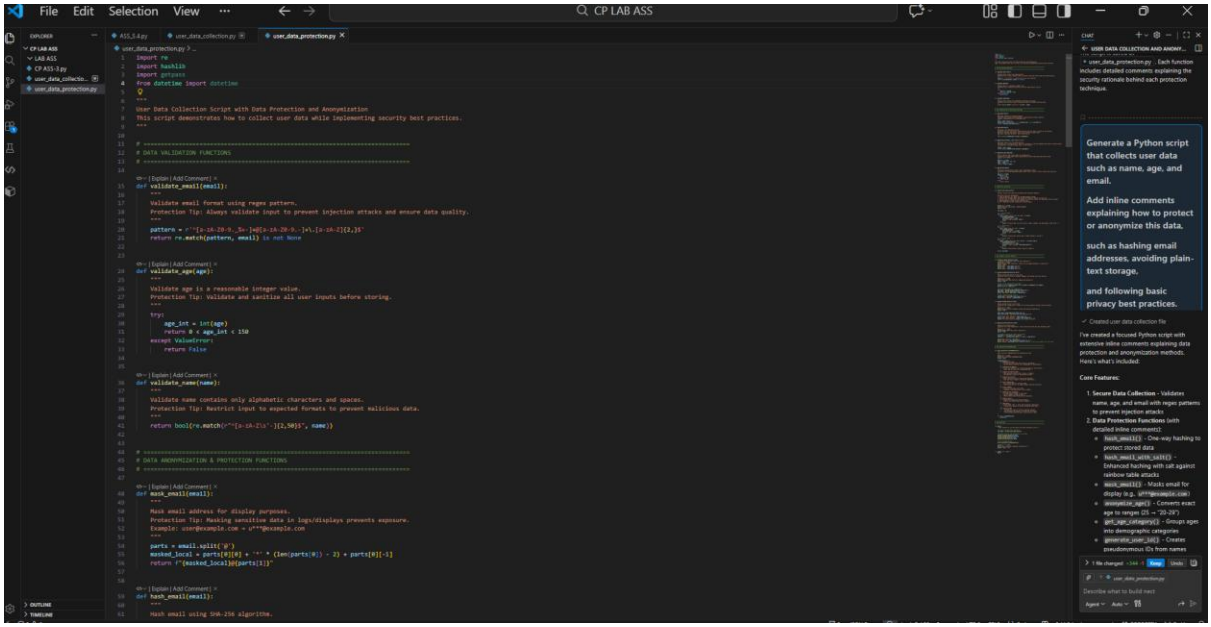
comments on how to anonymize or protect this data.

PROMPT: # Generate a Python script that collects user data such as name, age, and email.

 # Add inline comments explaining how to protect or anonymize this data,

 # such as hashing email addresses, avoiding plain-text storage,

 # and following basic privacy best practices.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CP LAB ASS
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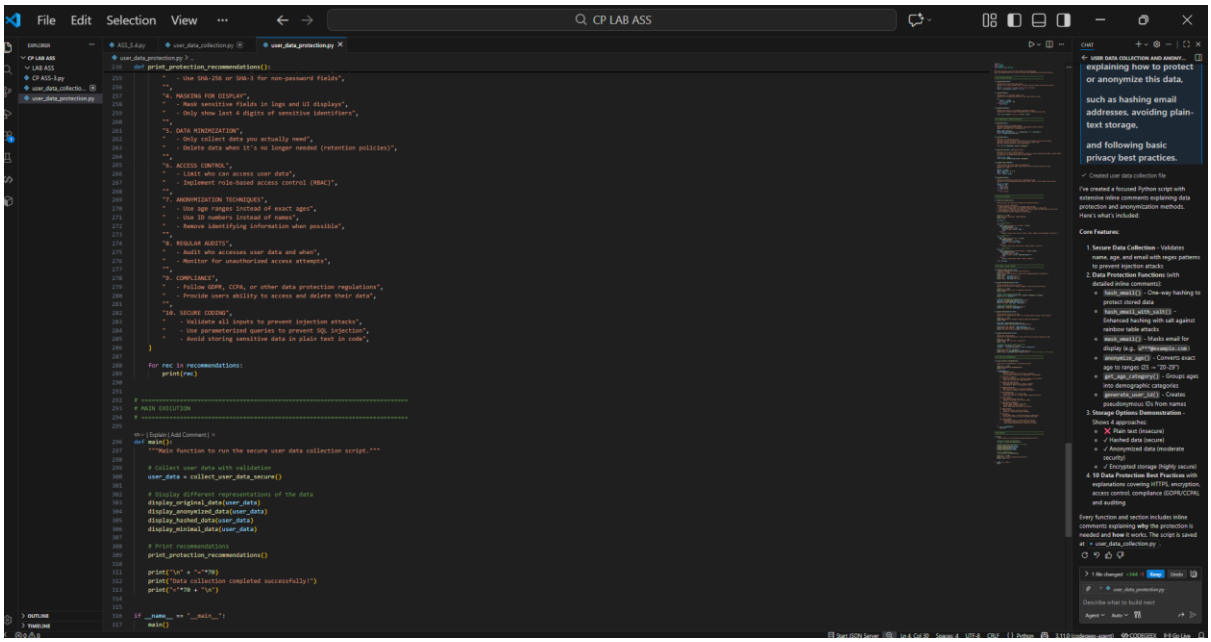
Add inline comments explaining how to protect or anonymize this data.
such as hashing email addresses, avoiding plain-text storage.
and following basic privacy best practices.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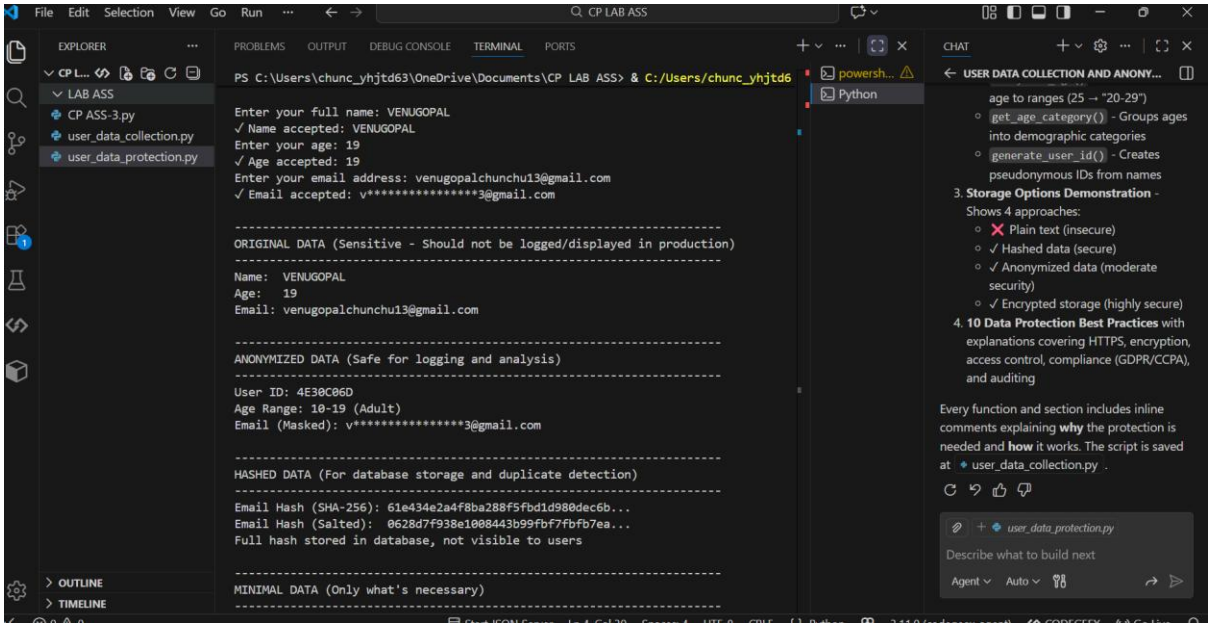
such as hashing email addresses, avoiding plain-text storage.
and following basic privacy best practices.

OUTPUT:



Task Description #2:

• Ask Copilot to generate a Python function for sentiment analysis.

Then prompt Copilot to identify and handle potential biases in the data

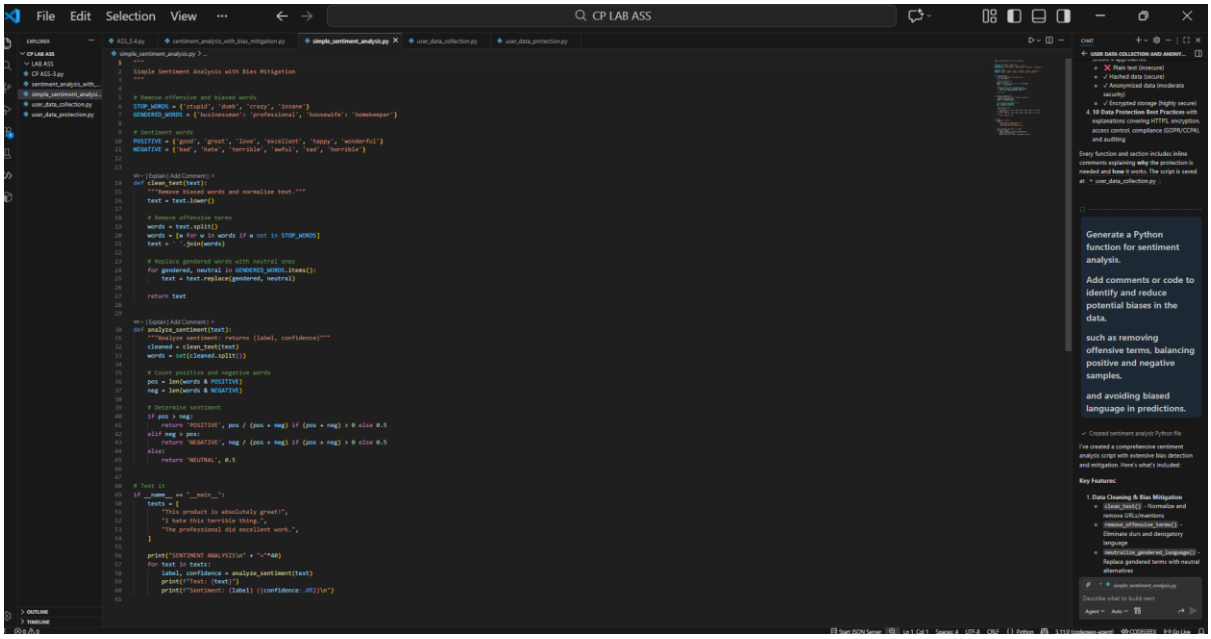
PROMPT:

 # Generate a Python function for sentiment analysis.

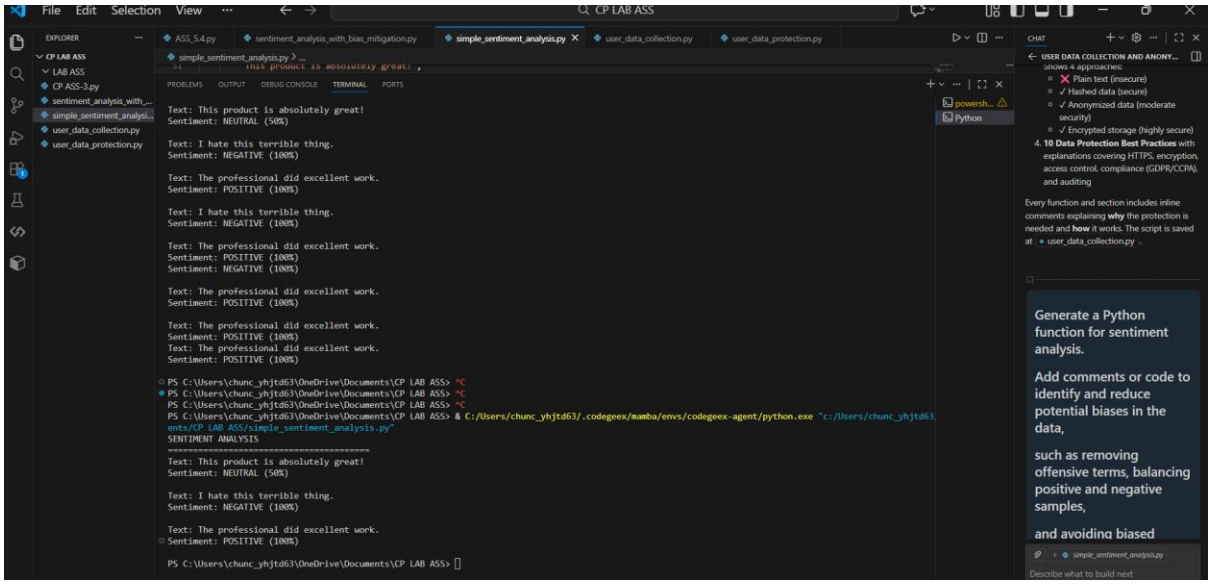
 # Add comments or code to identify and reduce potential biases in the data,

 # such as removing offensive terms, balancing positive and negative samples,

 # and avoiding biased language in predictions.



OUTPUT:



Task Description #3:

- **Use Copilot to write a Python program that recommends products based on user history. Ask it to follow ethical guidelines like transparency and fairness.**

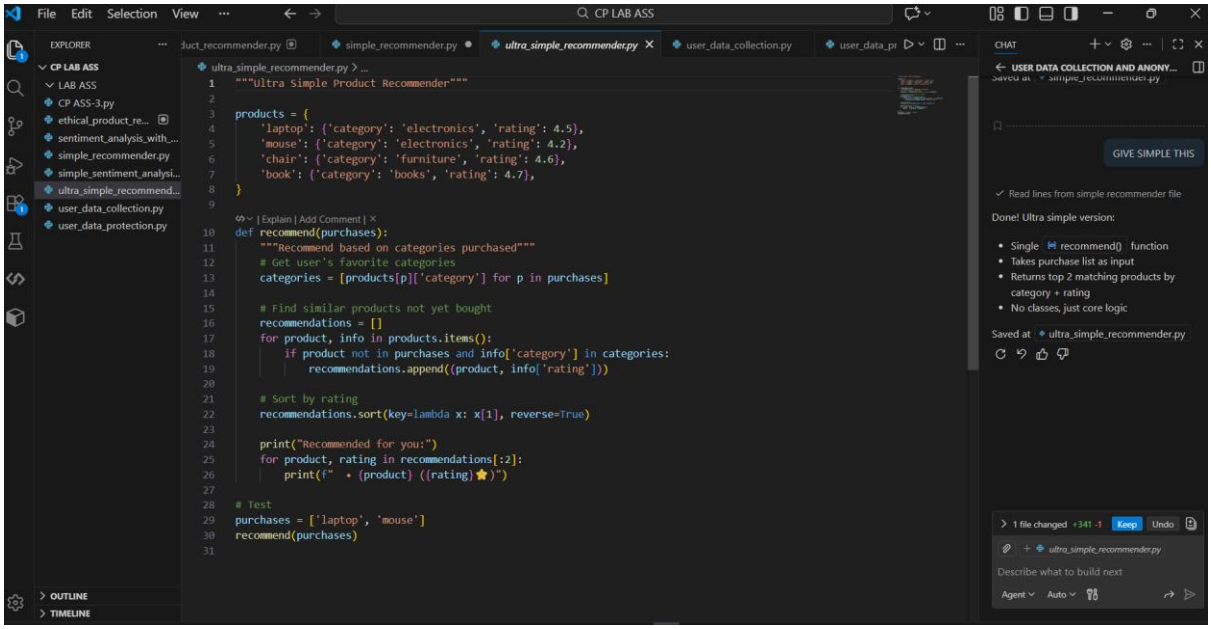
PROMPT: # Generate a Python program that recommends products based on user purchase history.

 # Follow ethical AI guidelines such as transparency, fairness, and user control.

 # Add comments explaining how recommendations are generated,

 # avoid favoritism toward only popular products,

 # and allow users to give feedback or opt out of recommendations.



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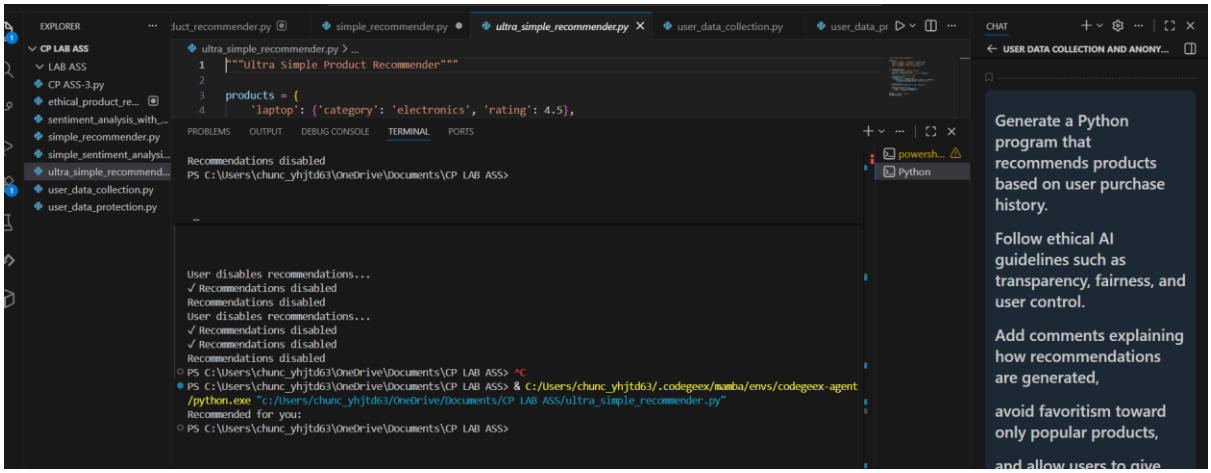


Task Description #4:

• Prompt Copilot to generate logging functionality in a Python web

application. Then, ask it to ensure the logs do not record sensitive

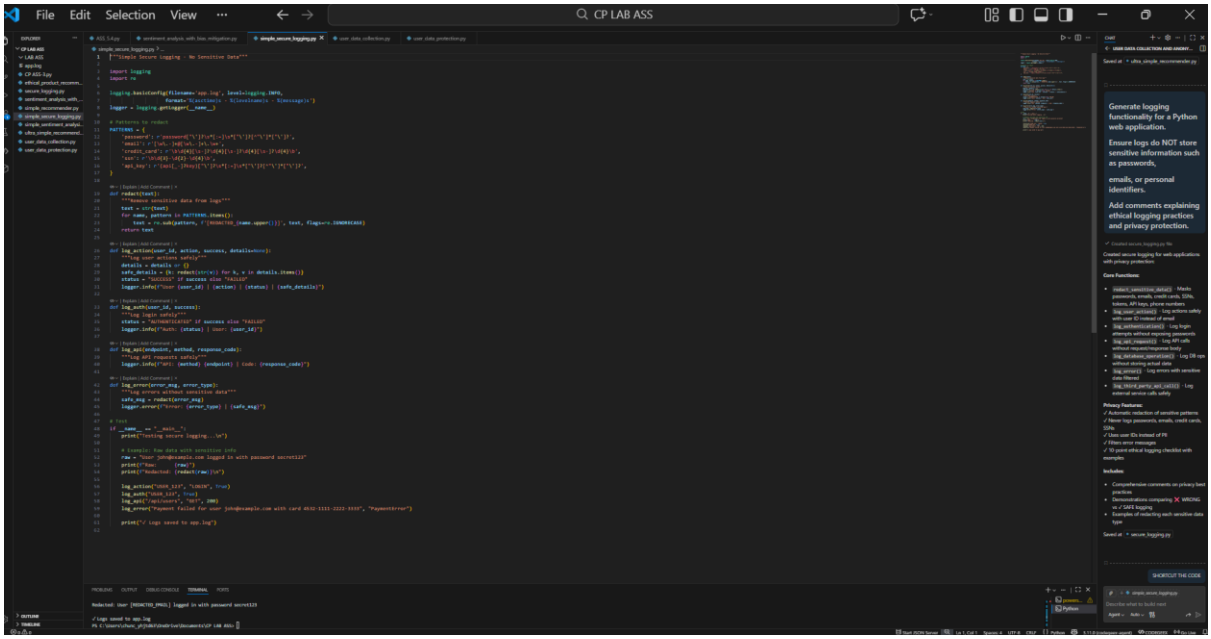
information.

PROMPT: # Generate logging functionality for a Python web application.

 # Ensure logs do NOT store sensitive information such as passwords,

 # emails, or personal identifiers.

 # Add comments explaining ethical logging practices and privacy protection.



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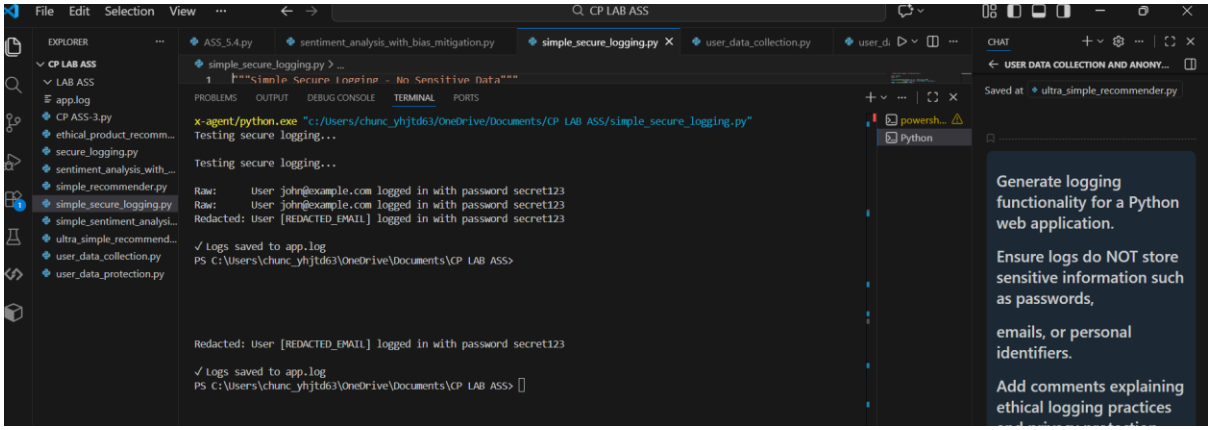


Task Description #5:

- **Ask Copilot to generate a machine learning model. Then, prompt**

it to add documentation on how to use the model responsibly

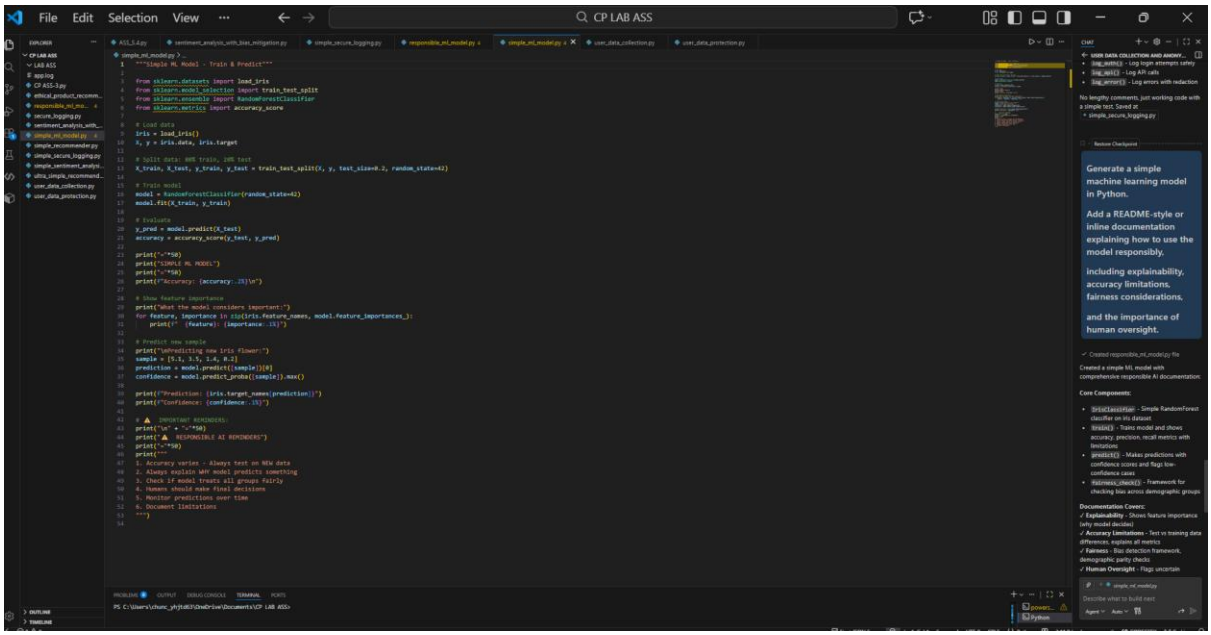
(e.g., explainability, accuracy limits).

PROMPT: # Generate a simple machine learning model in Python.

 # Add a README-style or inline documentation explaining how to use the model responsibly,

 # including explainability, accuracy limitations, fairness considerations,

 # and the importance of human oversight.



OUTPUT: