**Task 4: Machine Learning Production**

User Approach

Step 1: Plan

* Decide on the structure of the Python module. We can choose to write the code in a single block, divide it into functions, or create a class with methods.
* Determine the necessary imports and dependencies.
* Identify the key components needed to load the dataset and train the model.
* Consider how to handle exceptions and edge cases.

Step 2: Write

* Create a Python script with a clear and consistent structure.
* Use comments and documentation to explain the purpose of each section of code.
* Include functions or classes to load the dataset, train the model, and output performance metrics.
* Implement error handling to gracefully handle any issues encountered during execution.
* Test the script with sample data to ensure it functions as expected.