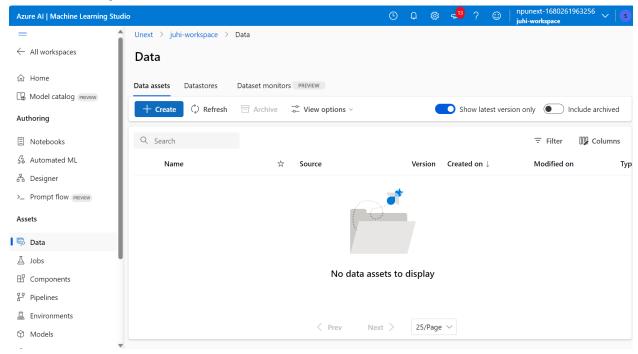
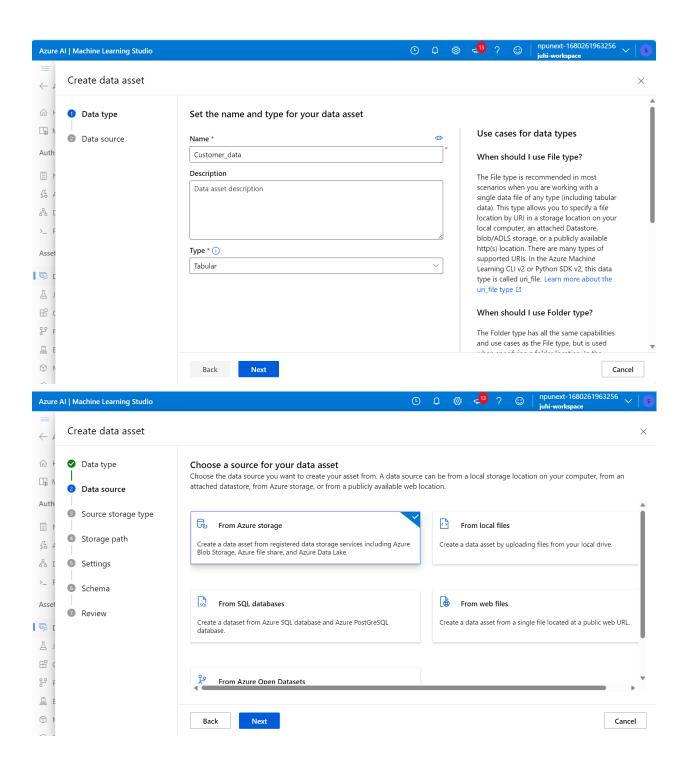
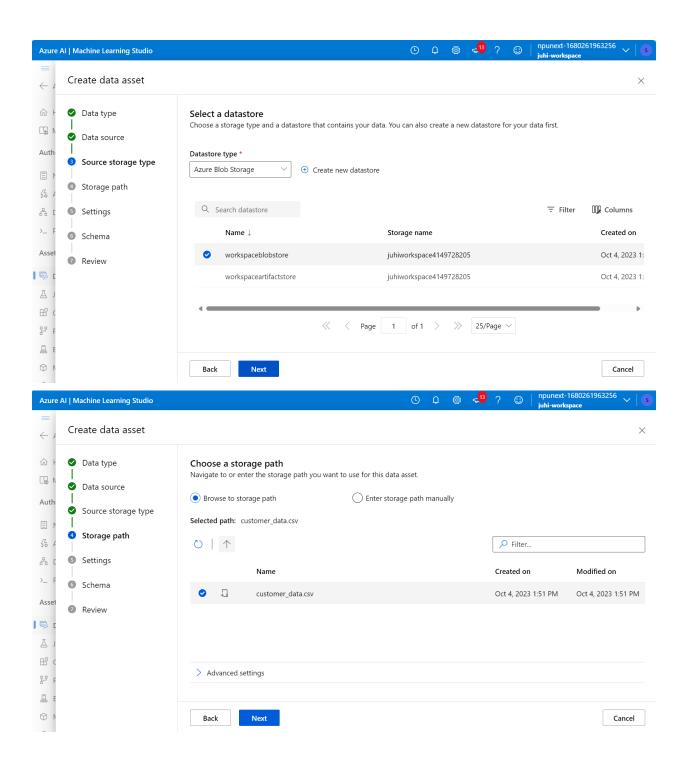
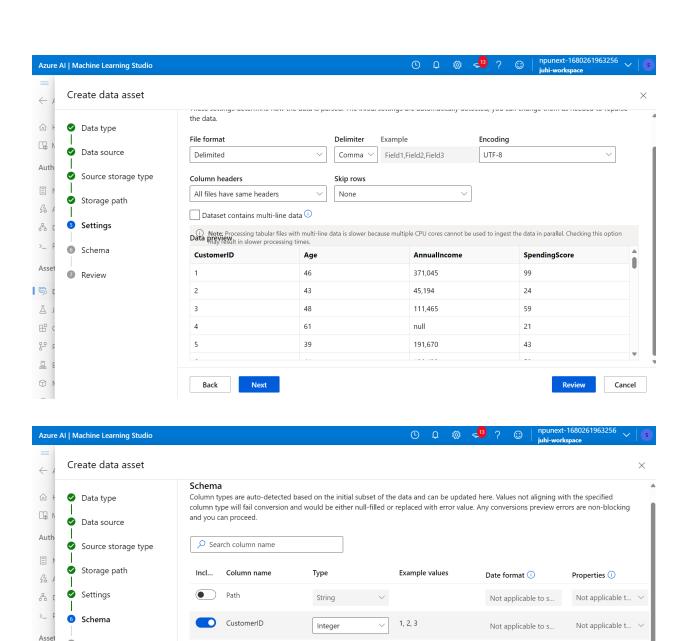


## 1. Data Preparation:









Decimal (dot '.')

Decimal (dot '.')

Decimal (dot '.')

AnnualIncome

SpendingScore

Back

46, 43, 48

99, 24, 59

371045, 45194, 111465

Not applicable to s...

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Not applicable t...  $\,\,\,\,\,\,\,\,\,\,$ 

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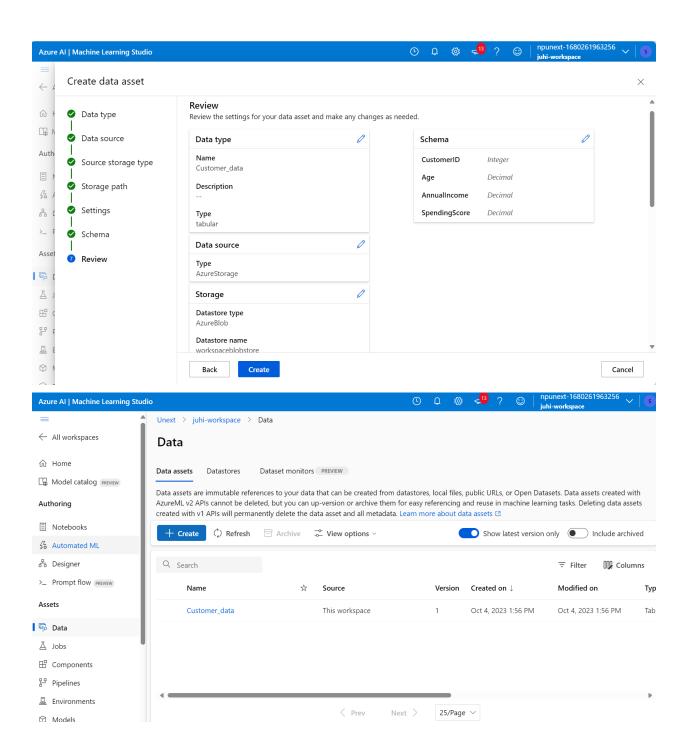
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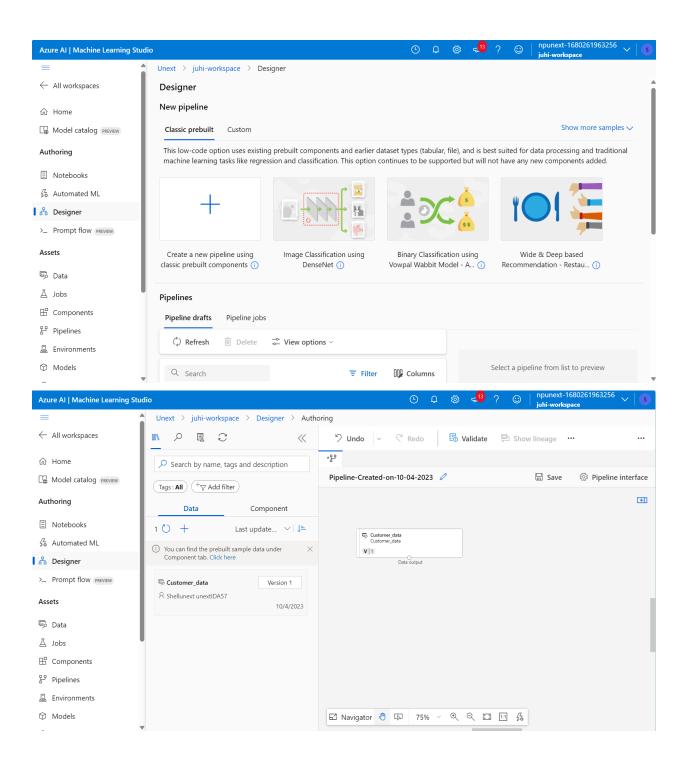
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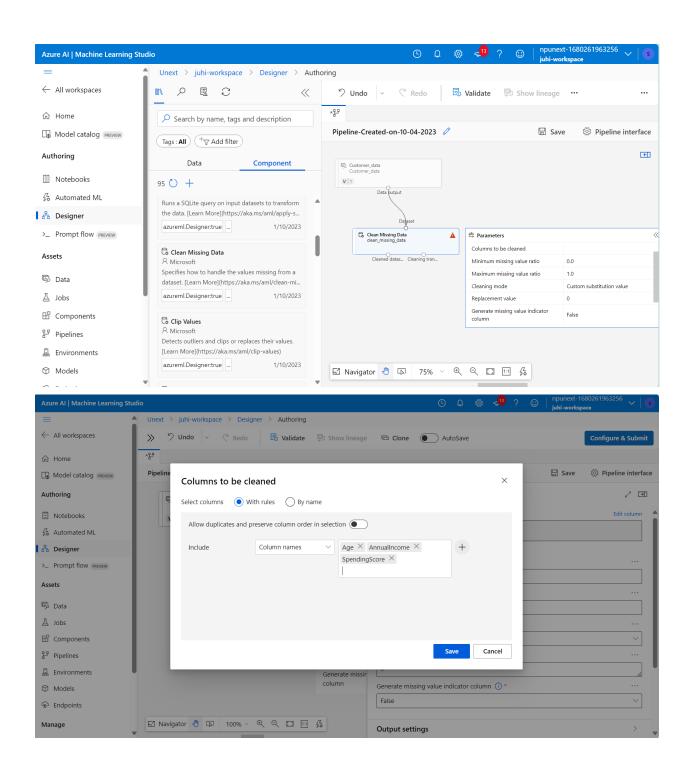
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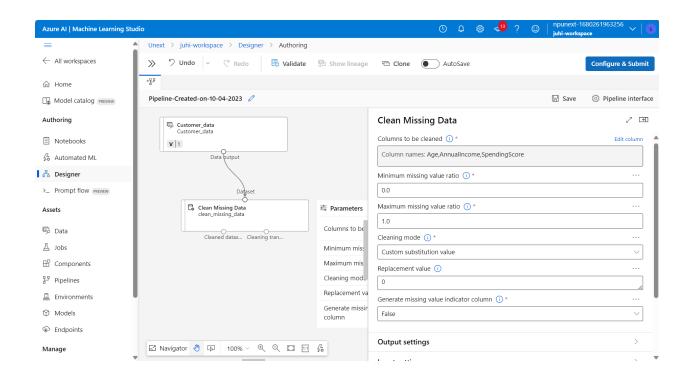
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8

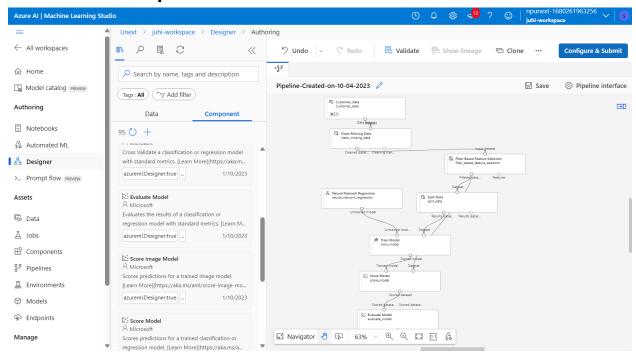




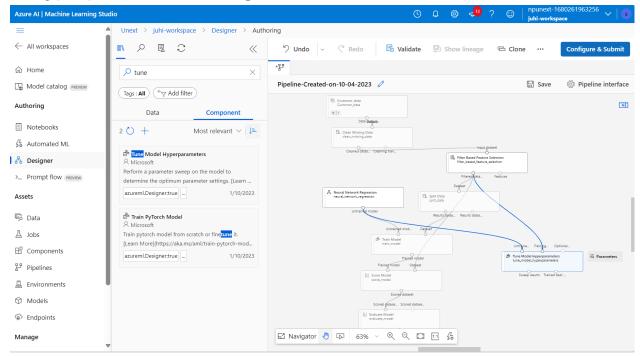




## 2. Model Development:



## 3. Hyperparameter Tuning:



## 4. Assessment Questions:

1. What are the key steps involved in preparing the dataset for training a machine learning model using Azure Machine Learning? Briefly explain each step?

The key steps involved in preparing the dataset for training a machine learning model using Azure Machine Learning are: Loading the data into the storage, Cleaning the data ,Processing the data and performing necessary transformations.

Why is it important to split the dataset into training and testing sets when developing a machine learning model? How does this help in model evaluation?

3. Describe a machine learning algorithm suitable for predicting customer purchasing behavior in the given scenario. Explain why you chose this algorithm. Neural Regression What is hyperparameter tuning, and why is it important in machine learning? Explain a technique used for hyperparameter tuning and its benefits