CS 461

Lab Assignment 10

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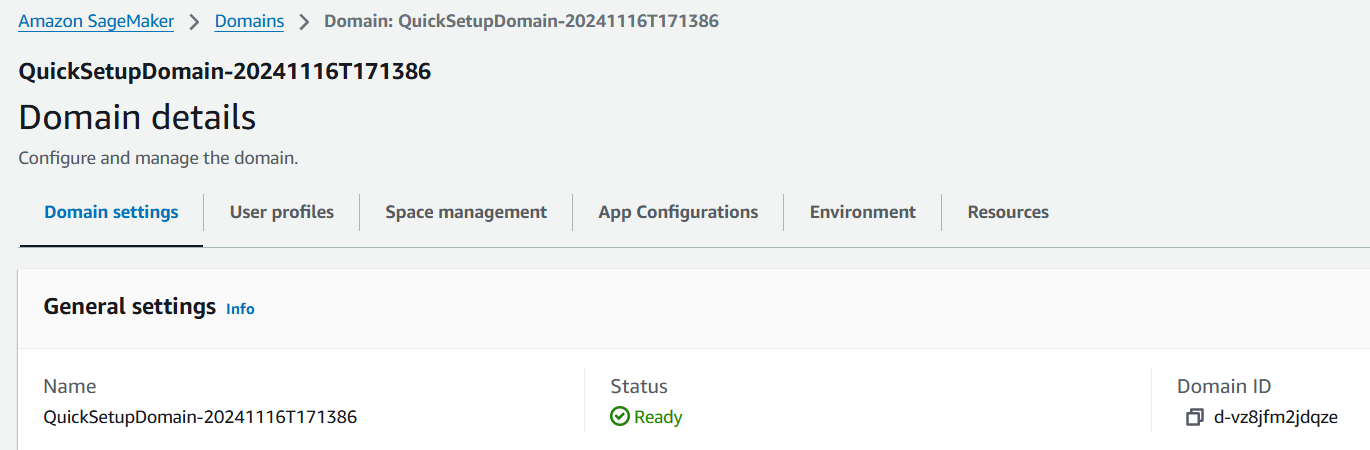
Date: 16-11-2024

**Q. Working with AWS and Google Collab Architectures**

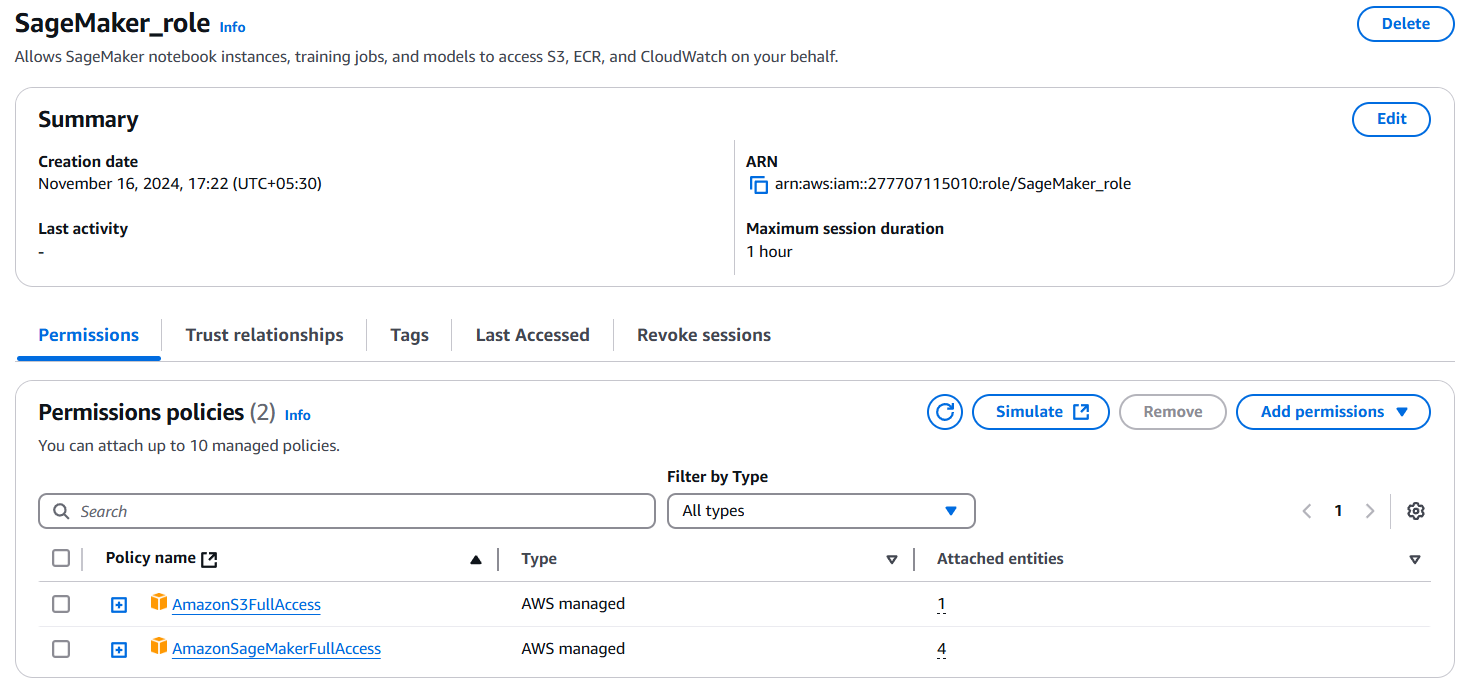
**NOTE:** No major changes done in provided ipynb file except updating the ARN role, the bucket name and installing s3fs thorough pip.

**Steps Followed:**

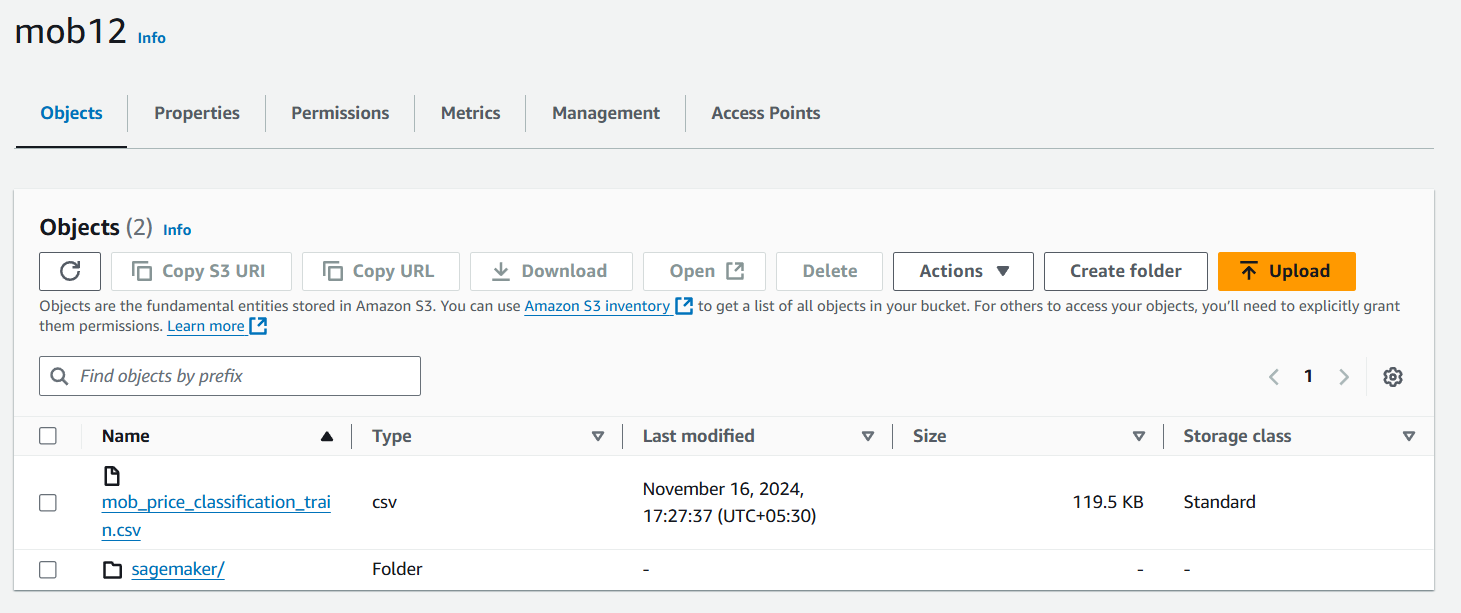
**1. Create a Domain in SageMaker**



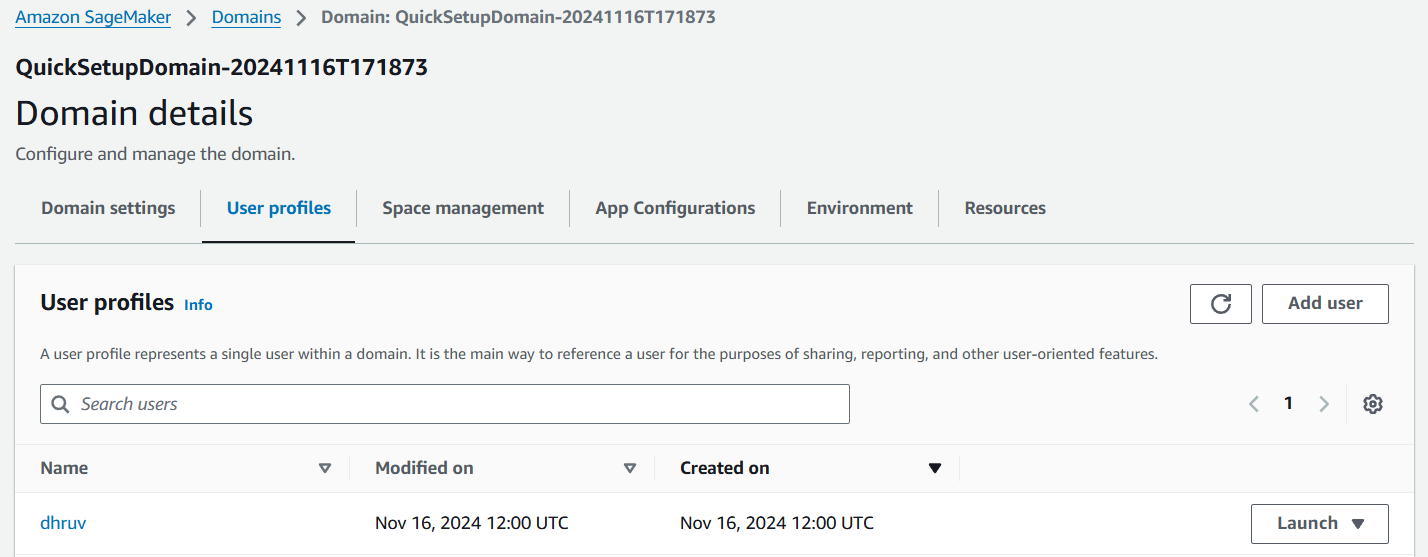
**2.** **Create an IAM User Role and give AmazonSageMakerFullAccess permission and attach AmazonS3FullAccess policy for data access**

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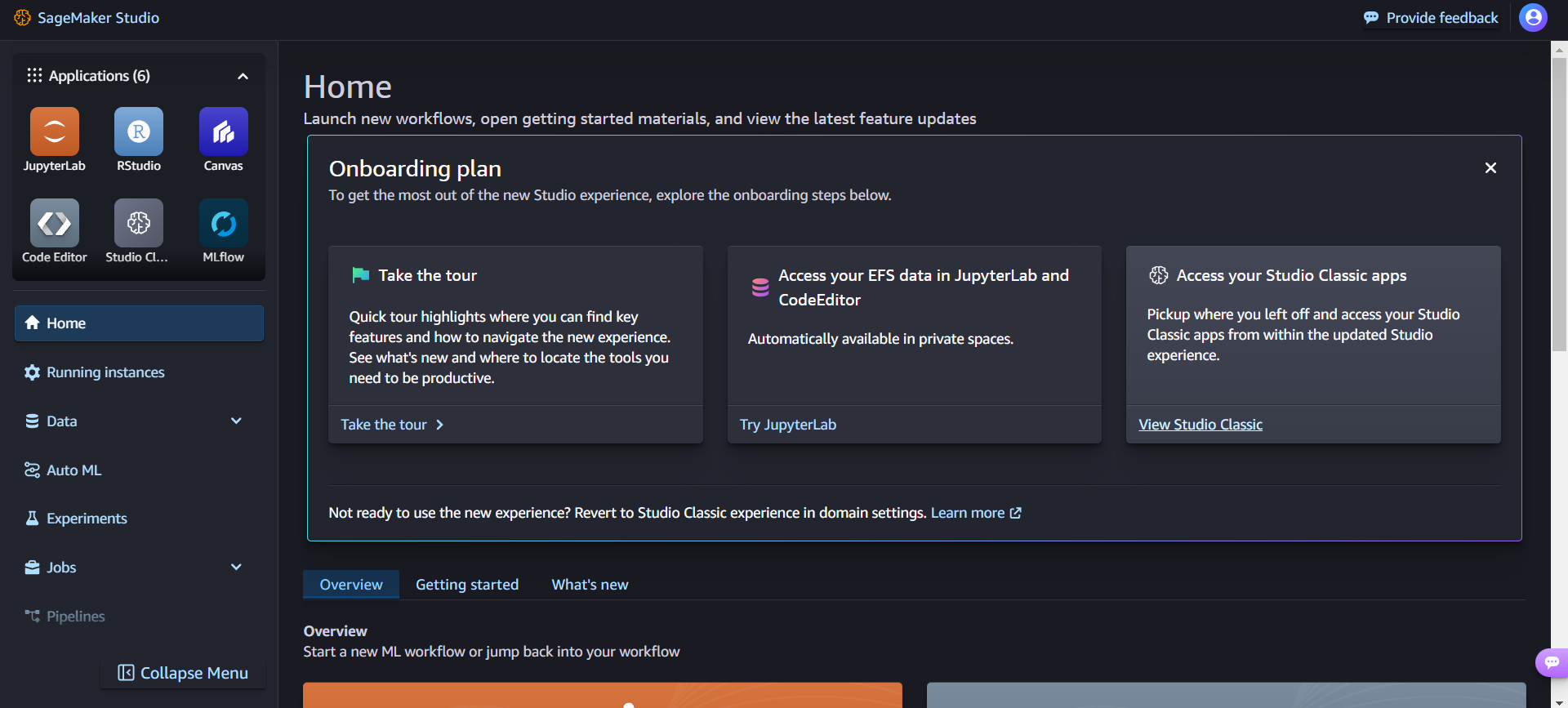
**3. Create an S3 Bucket and Upload the Dataset i.e. mob\_price\_classification\_train.csv**



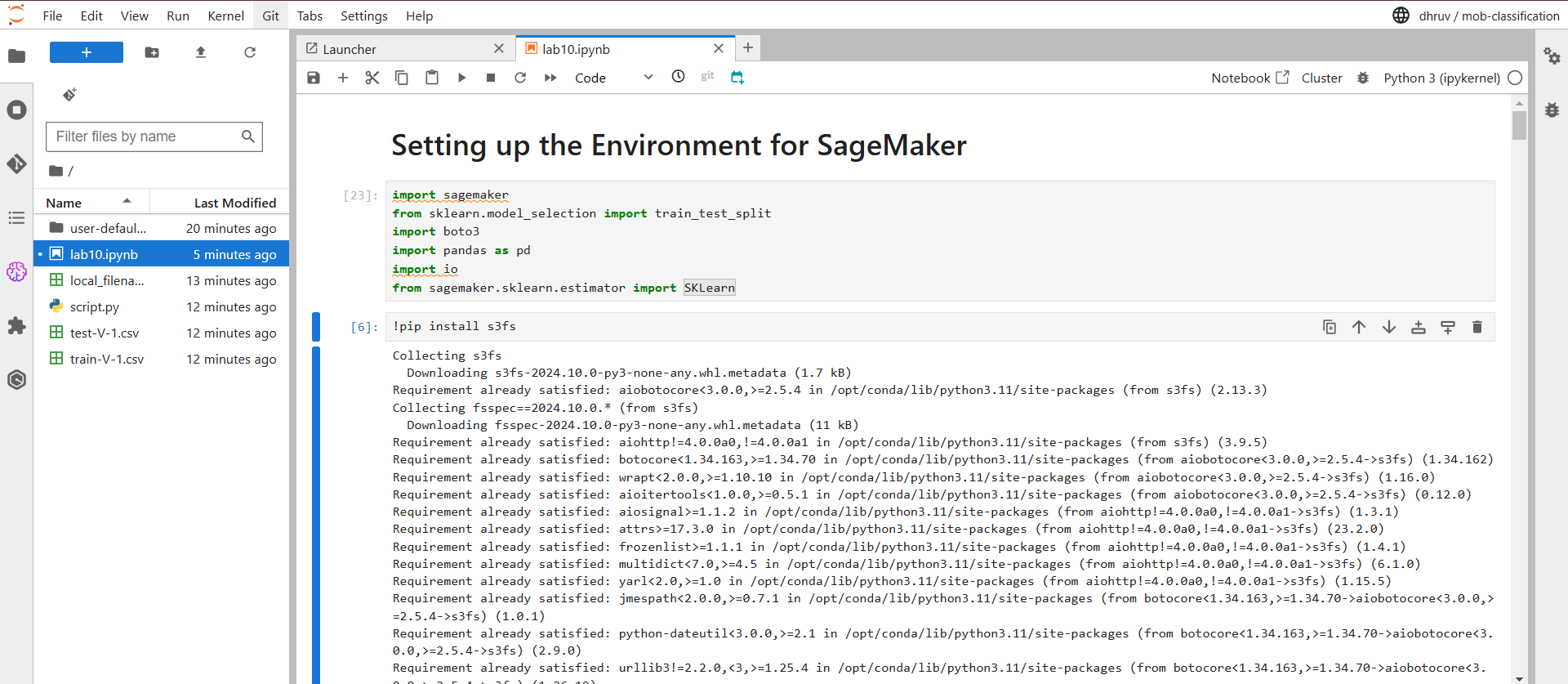
4. **Create a new user profile in the created domain of SageMaker console**:



**5. Launch Studio from the SageMaker console.**

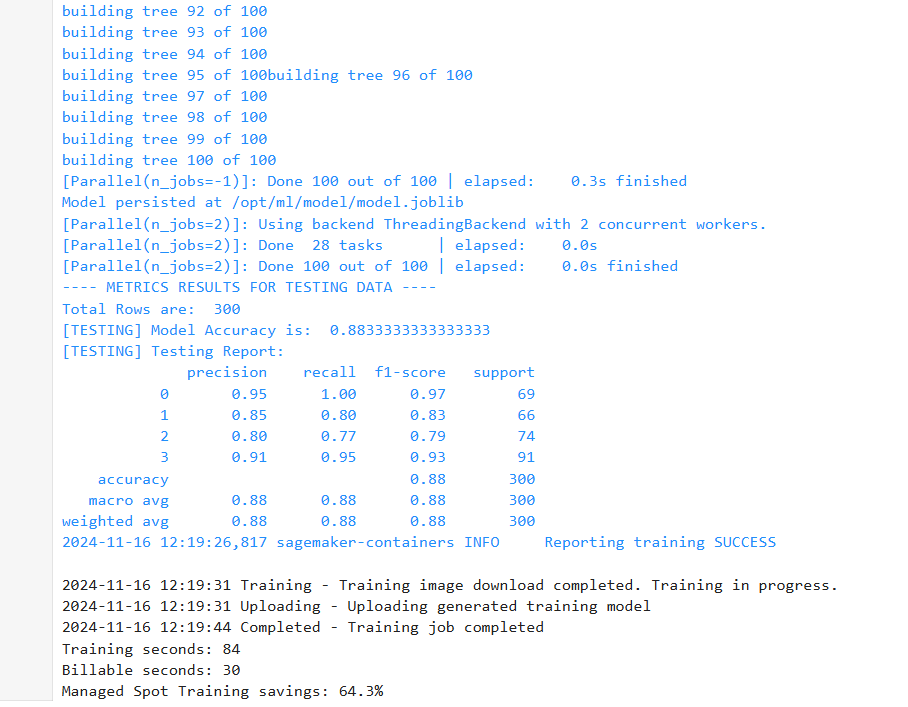
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**6. In Studio, select Jupyter Lab and upload the .ipynb file.**

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**7. Update the bucket name, ARN role or any other dependencies and run it.**

**Final Output:**

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**Successfully trained and attained accuracy of 88%.**

**Conclusion: Successfully able to utilize Amazon SageMaker to run and train machine learning model and S3 for storage.**