Tutorial 7: Time Series Forecasting in AutoML

Before proceeding with the tasks ahead, make sure you have created ***resource***, and ***workspace*** in MS Azure Machine Learning. If you need guidance on this, please refer to Tutorial 4.

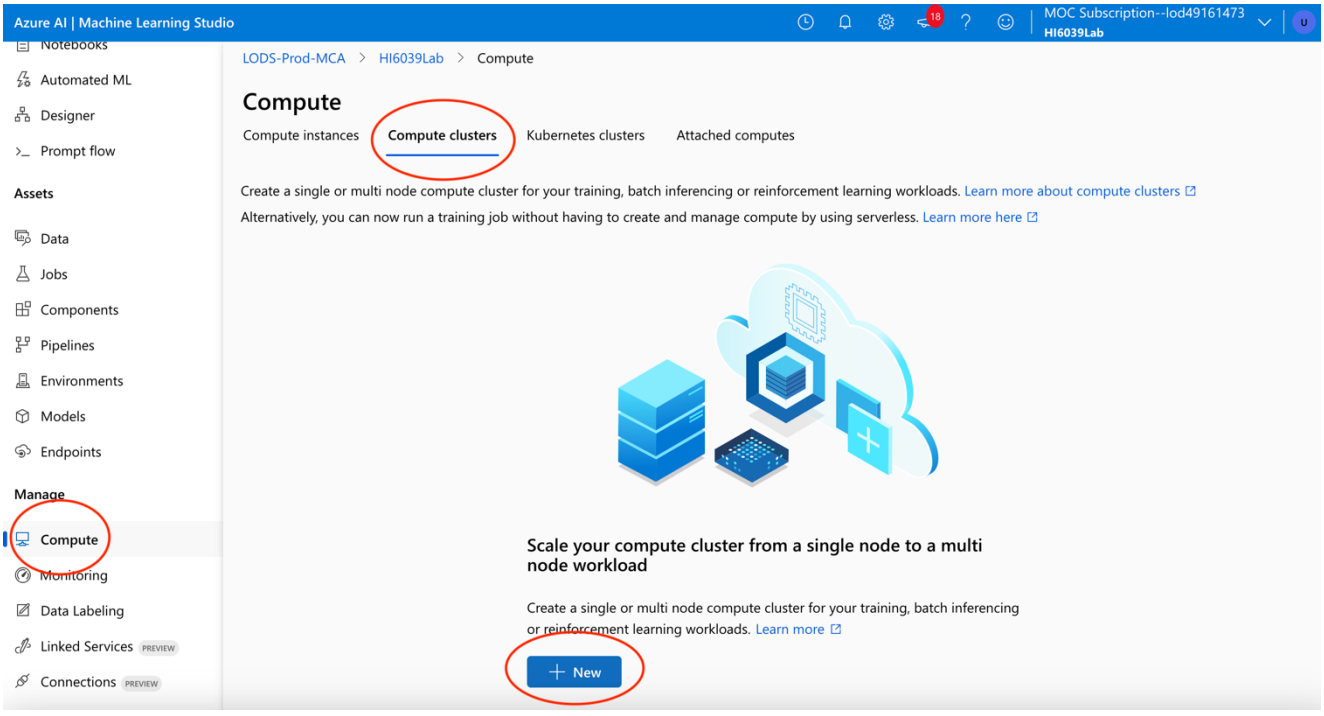
Download dataset

You need to download electric production dataset (Electric_Production.csv) from Blackboard or from the following URL: https://www.kaggle.com/datasets/shenba/electricity-production?select=Electric_Production.csv

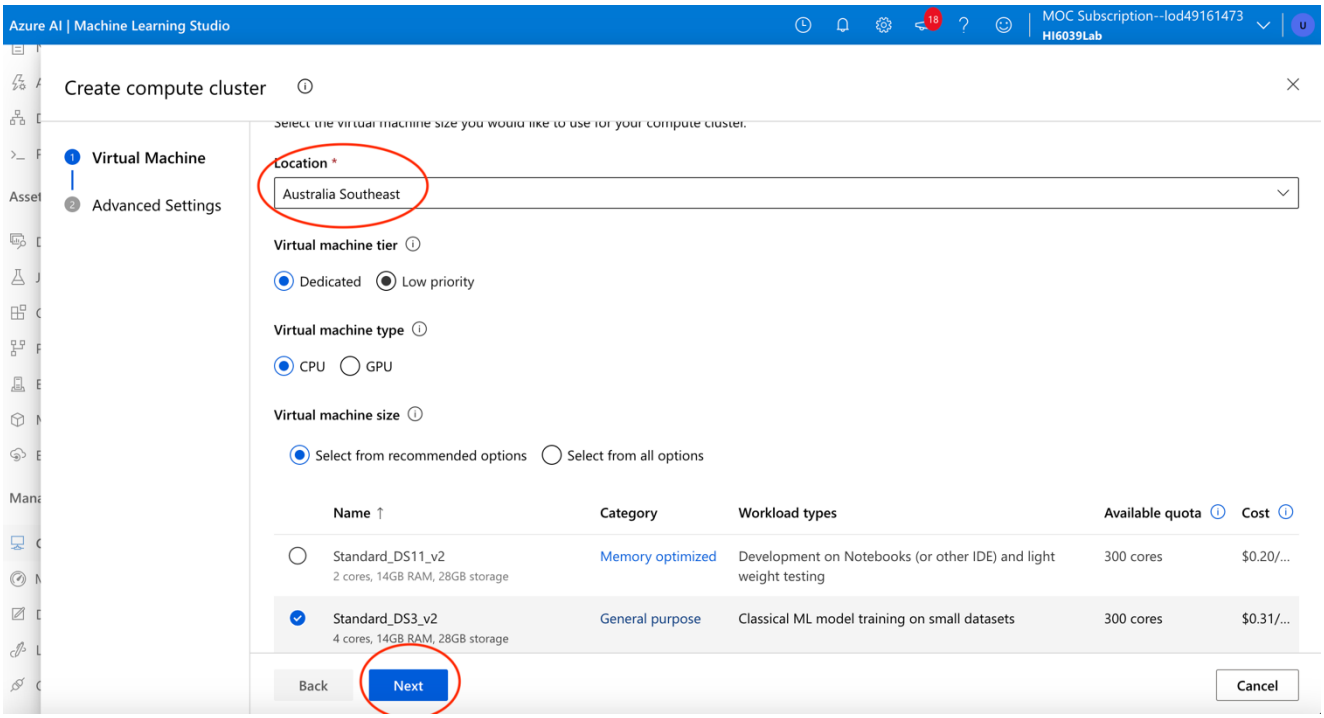
You can also download this dataset on Blackboard directly.

Create compute

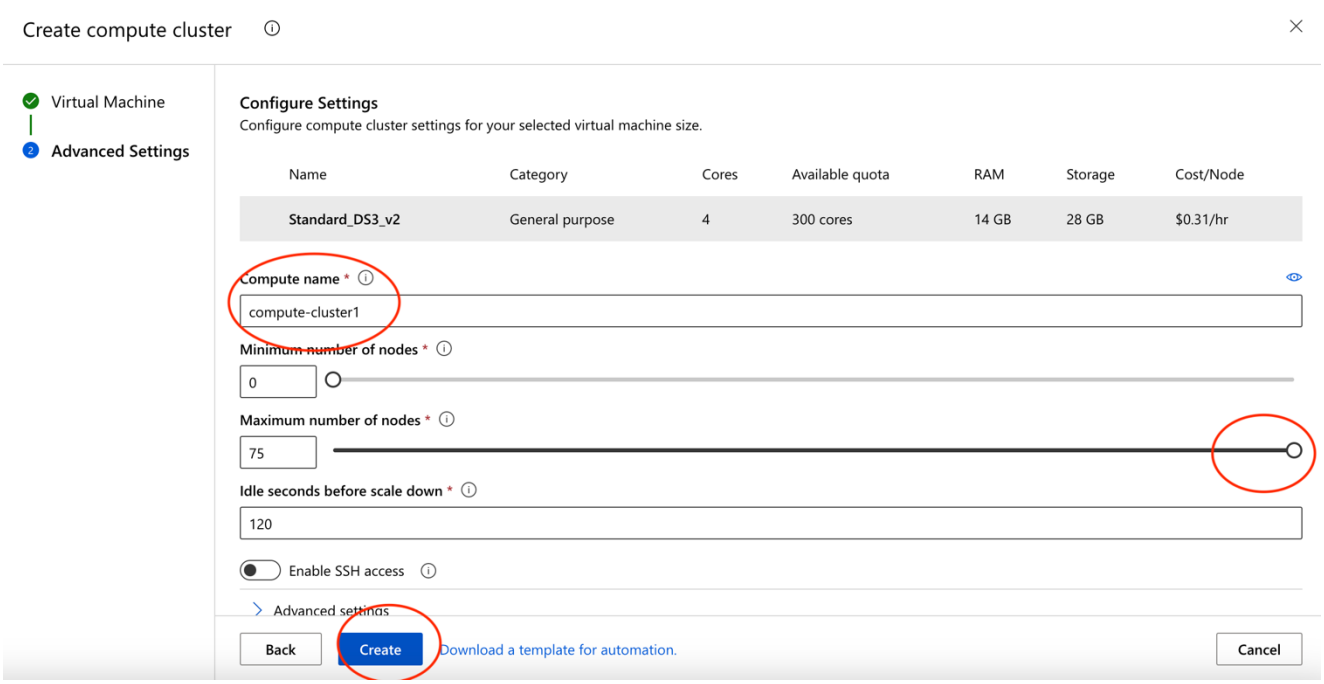
1. Click 'Compute', select 'Compute clusters', and click 'New'



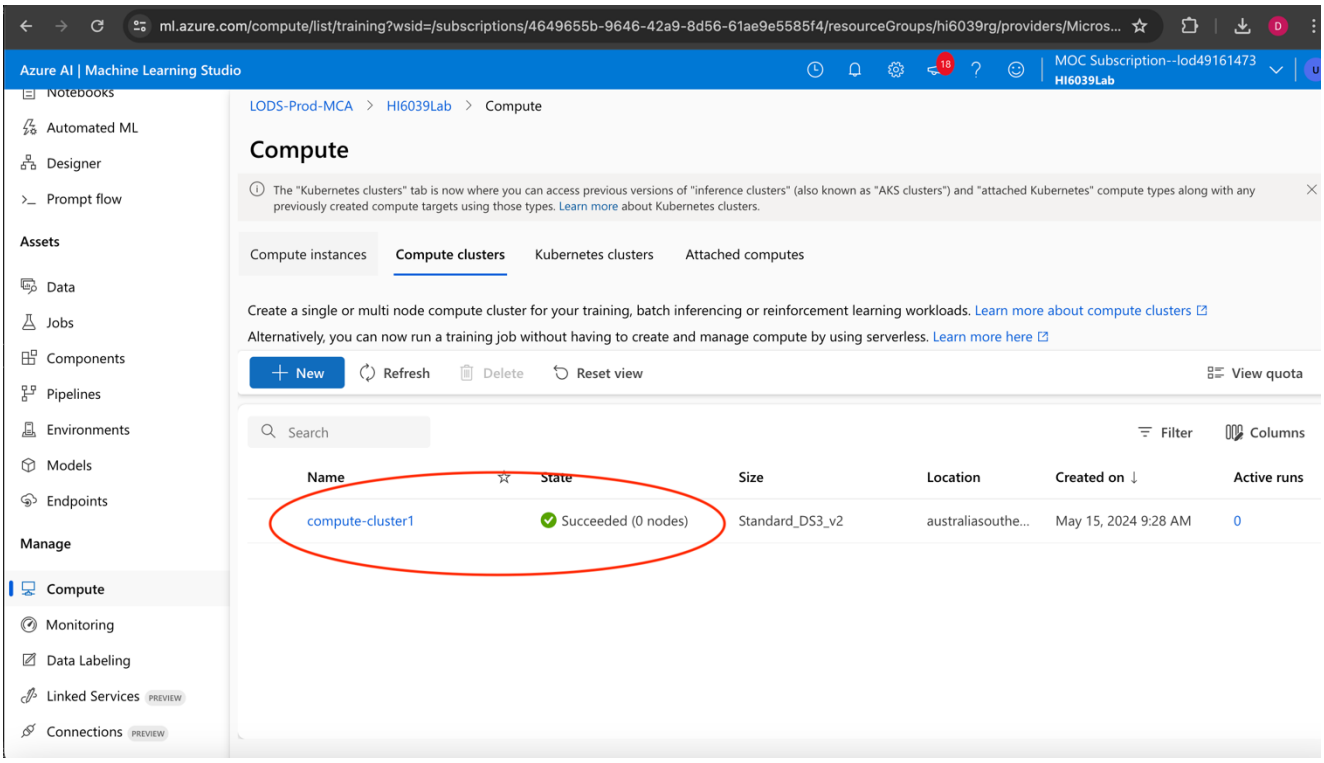
2. Select a location, and click ‘Next’



3. Enter a compute name, select the ‘Maximum number of nodes’, and click ‘Create’

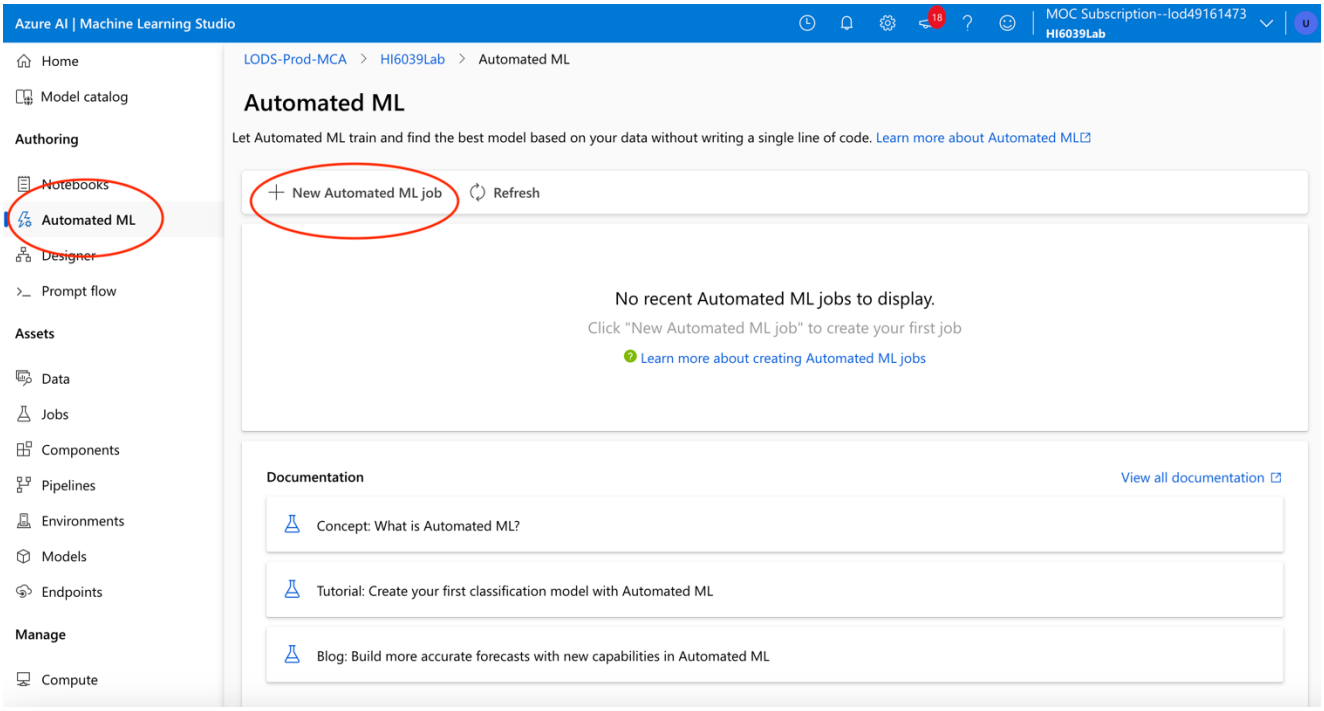


4. The compute will be created as follows:

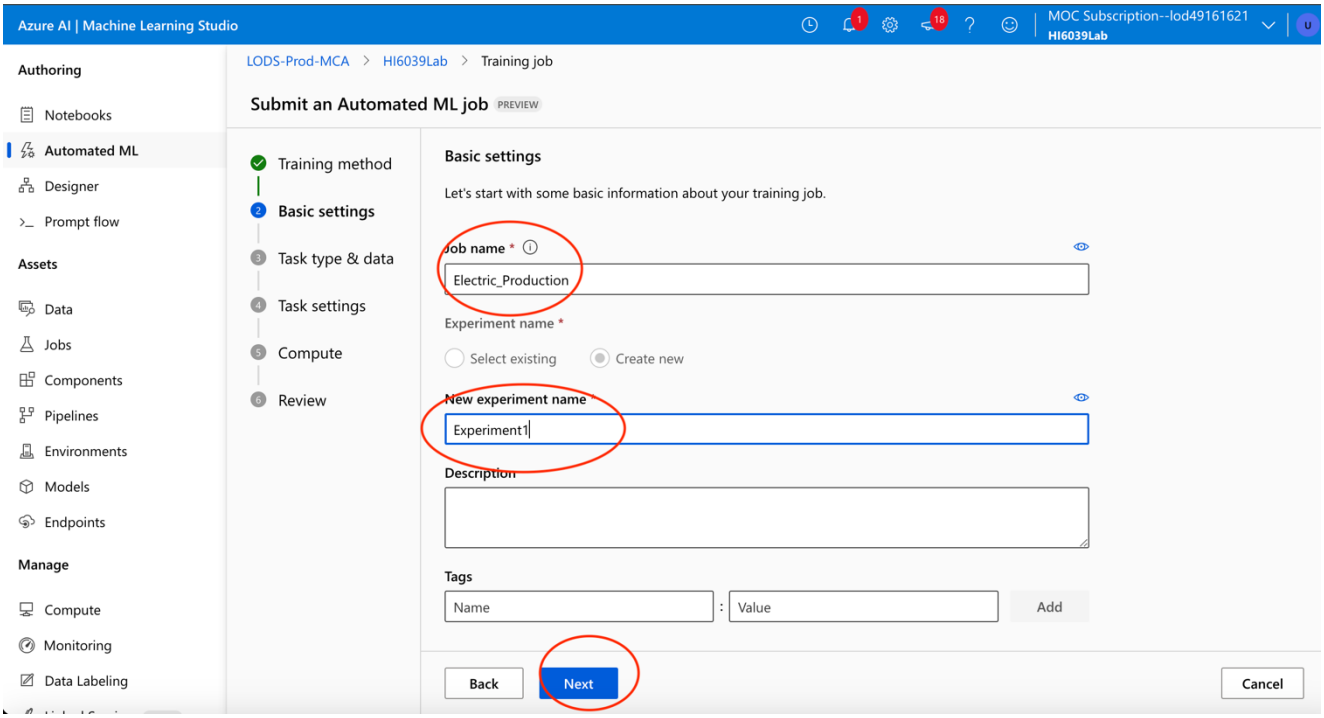


Time Series Forecasting in AutoML

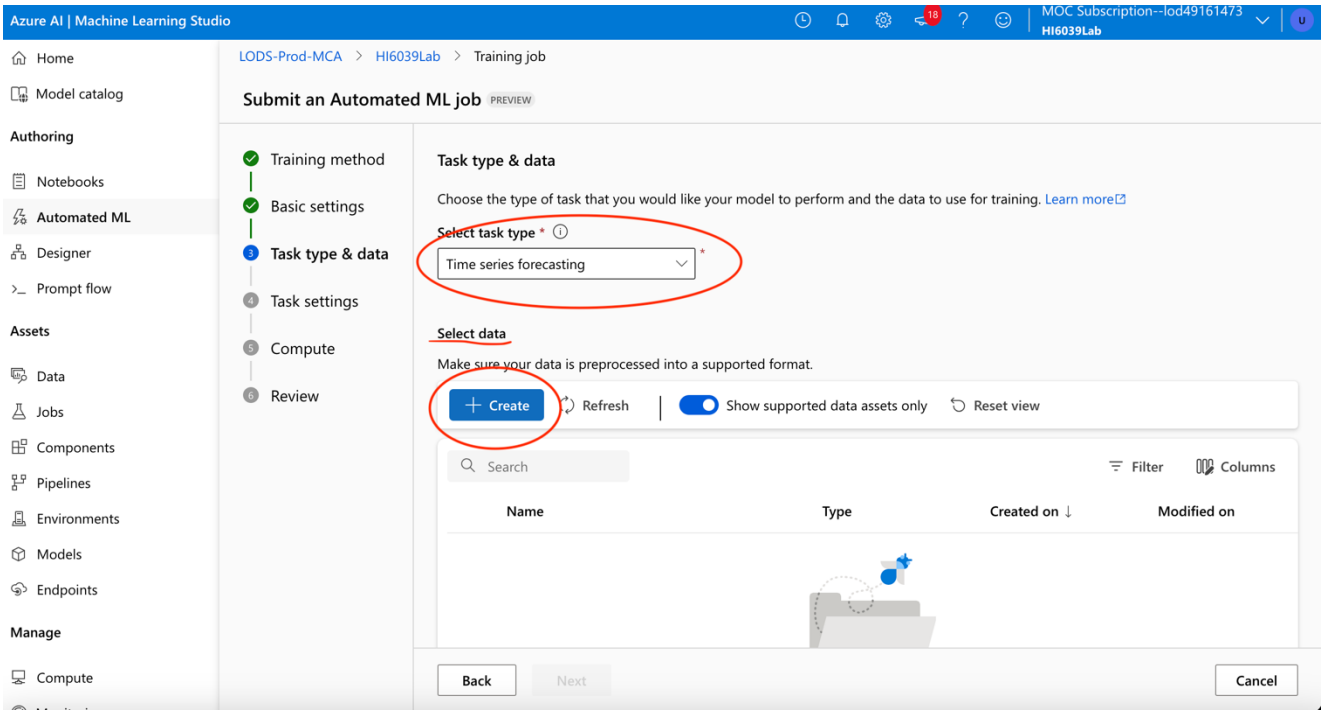
1. Click ‘Automated ML’, and click ‘New Automated ML job’.



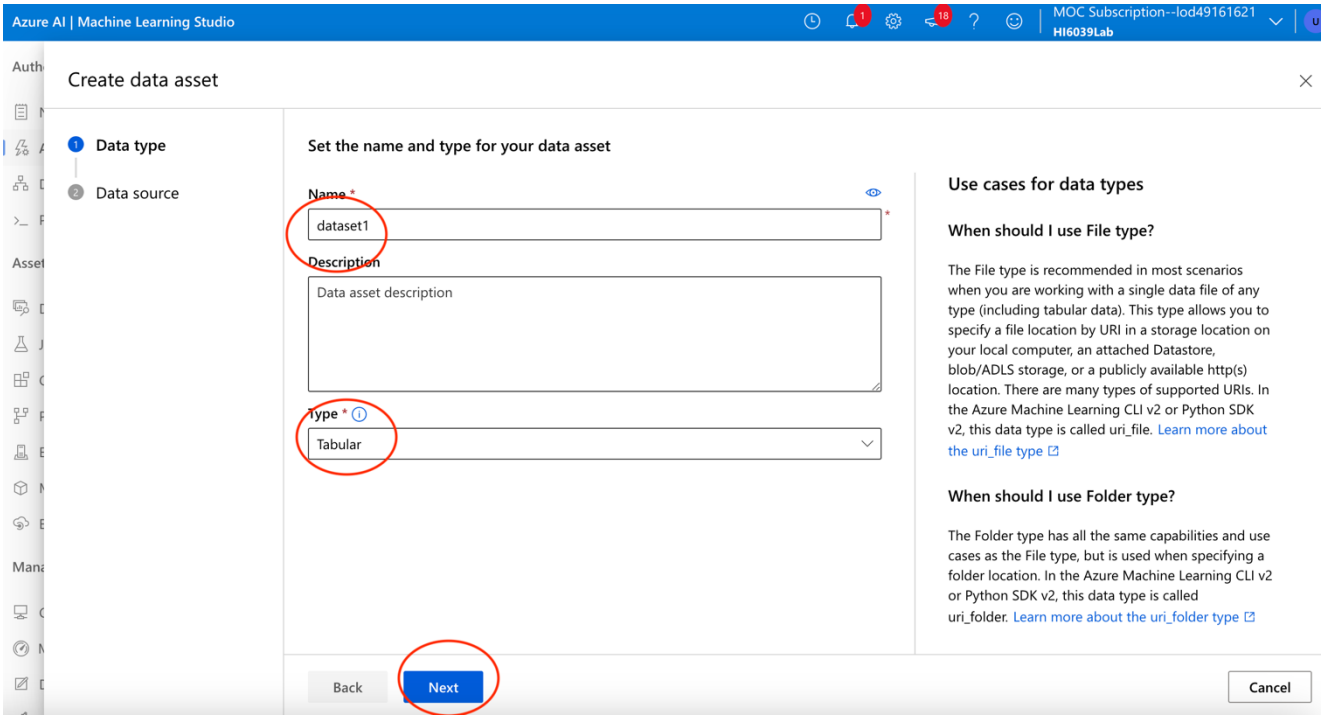
2. Enter a job name, an experiment name; and click ‘Next’.



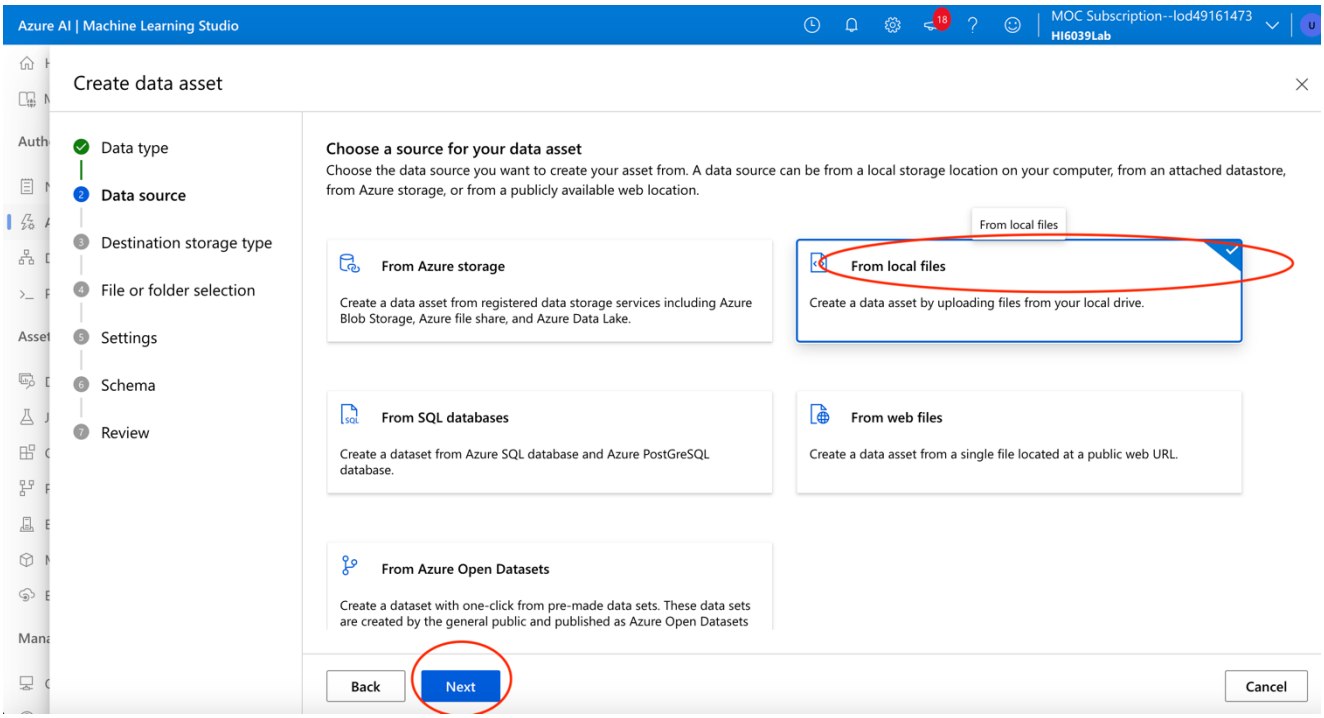
3. Select task type ‘Time series forecasting’, and click ‘Create’ to create a dataset.



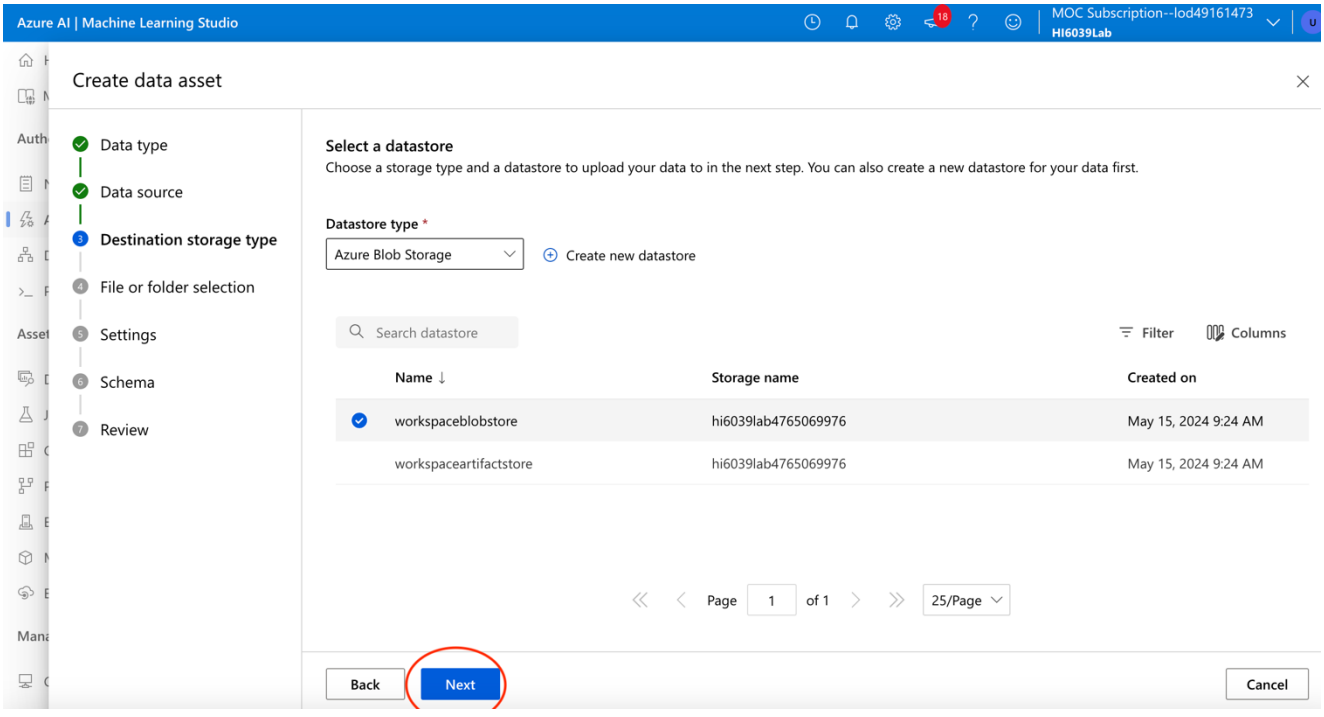
4. Enter a name, select type ‘Tabular’, and click ‘Next’.



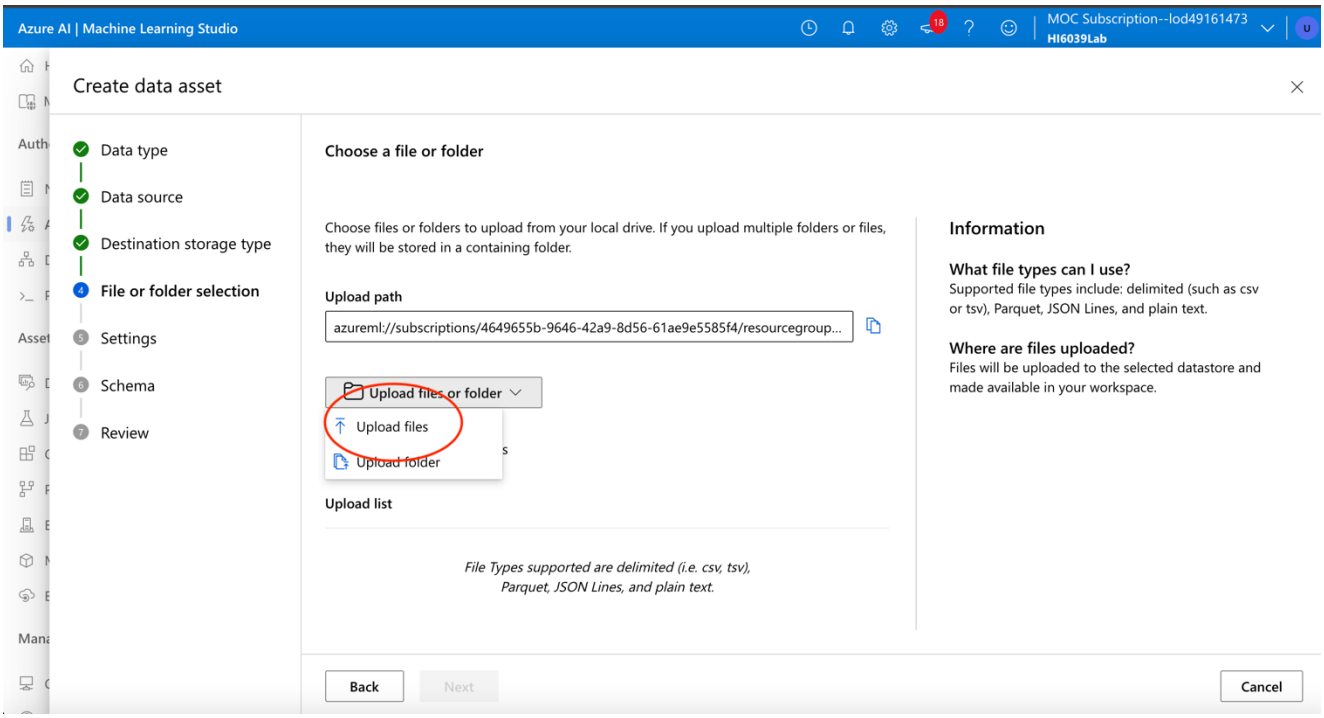
5. Select ‘From local files’, and click ‘Next’.



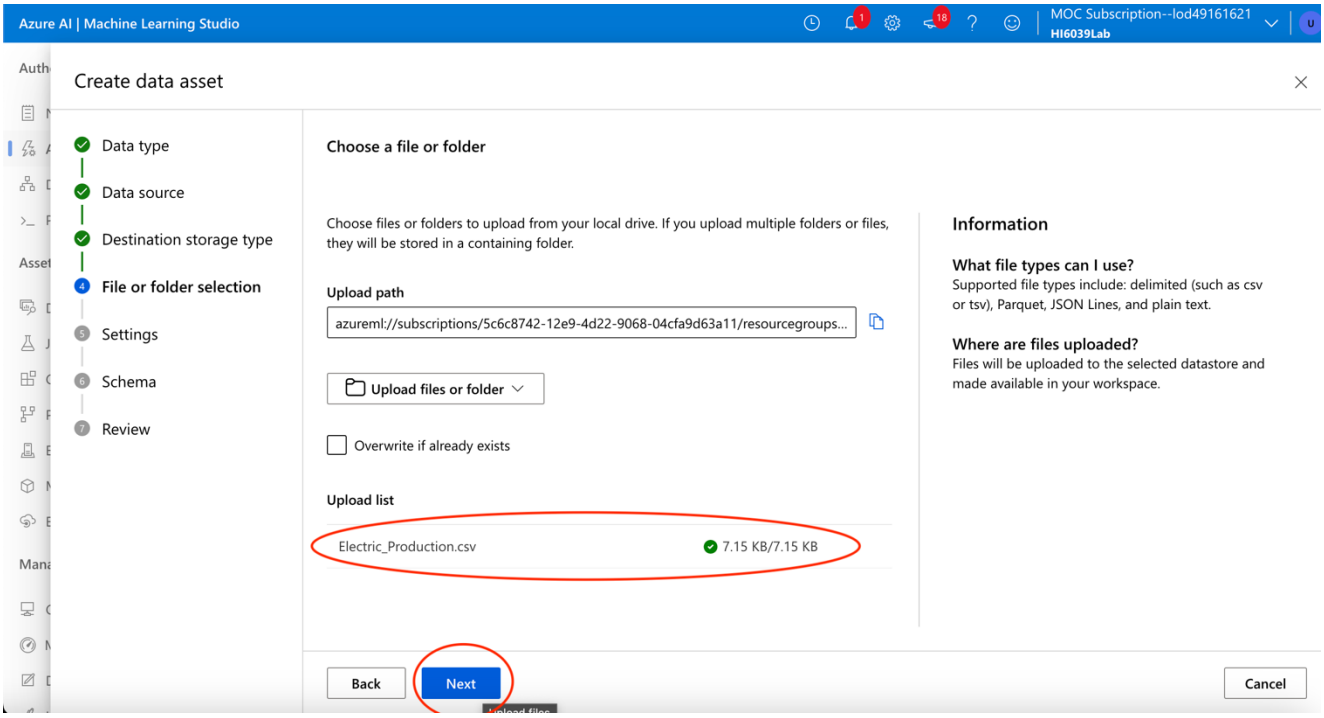
6. Click ‘Next’



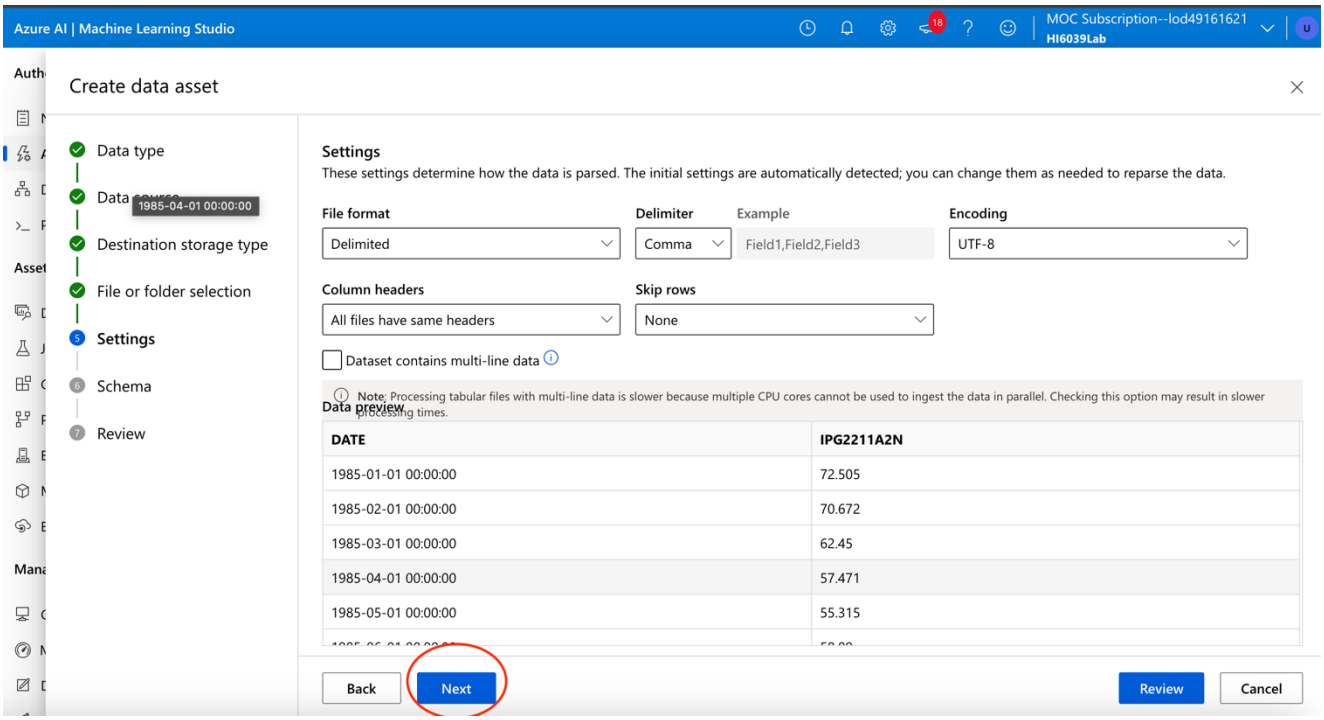
7. Select ‘Upload files’.



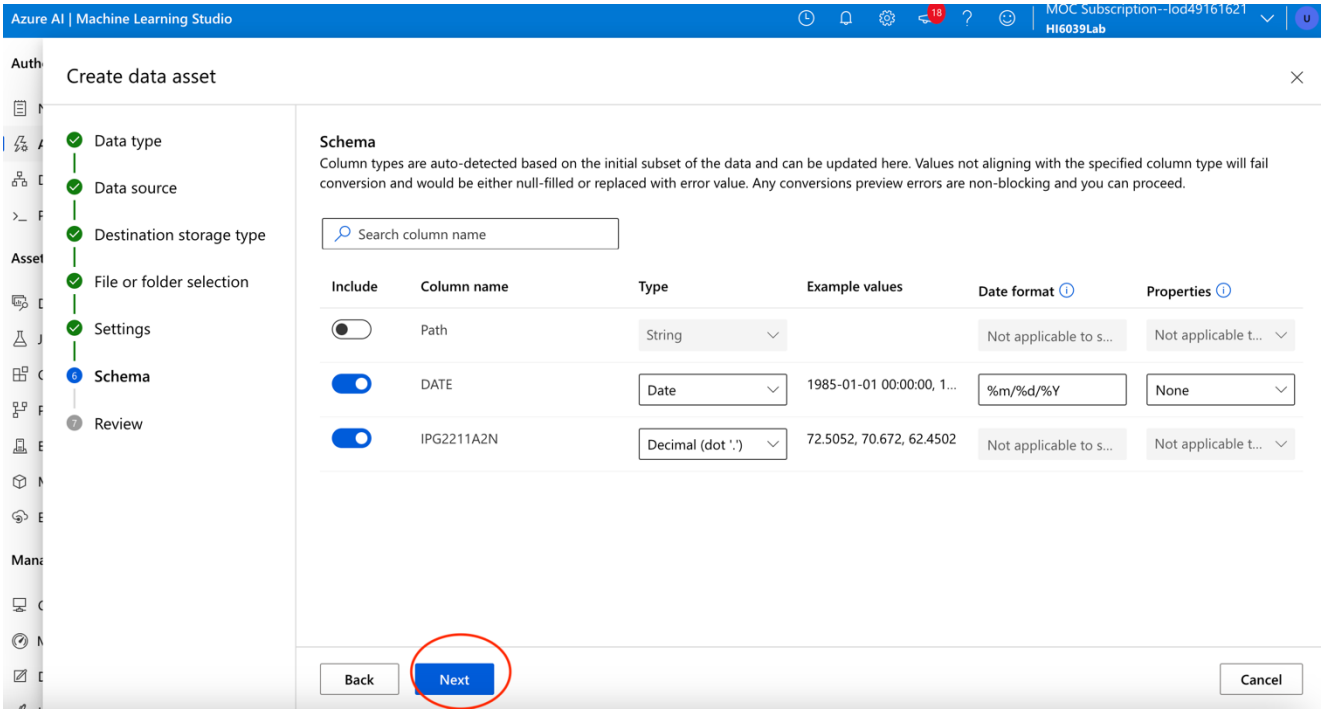
8. Upload the dataset file you have already downloaded, and click ‘Next’.



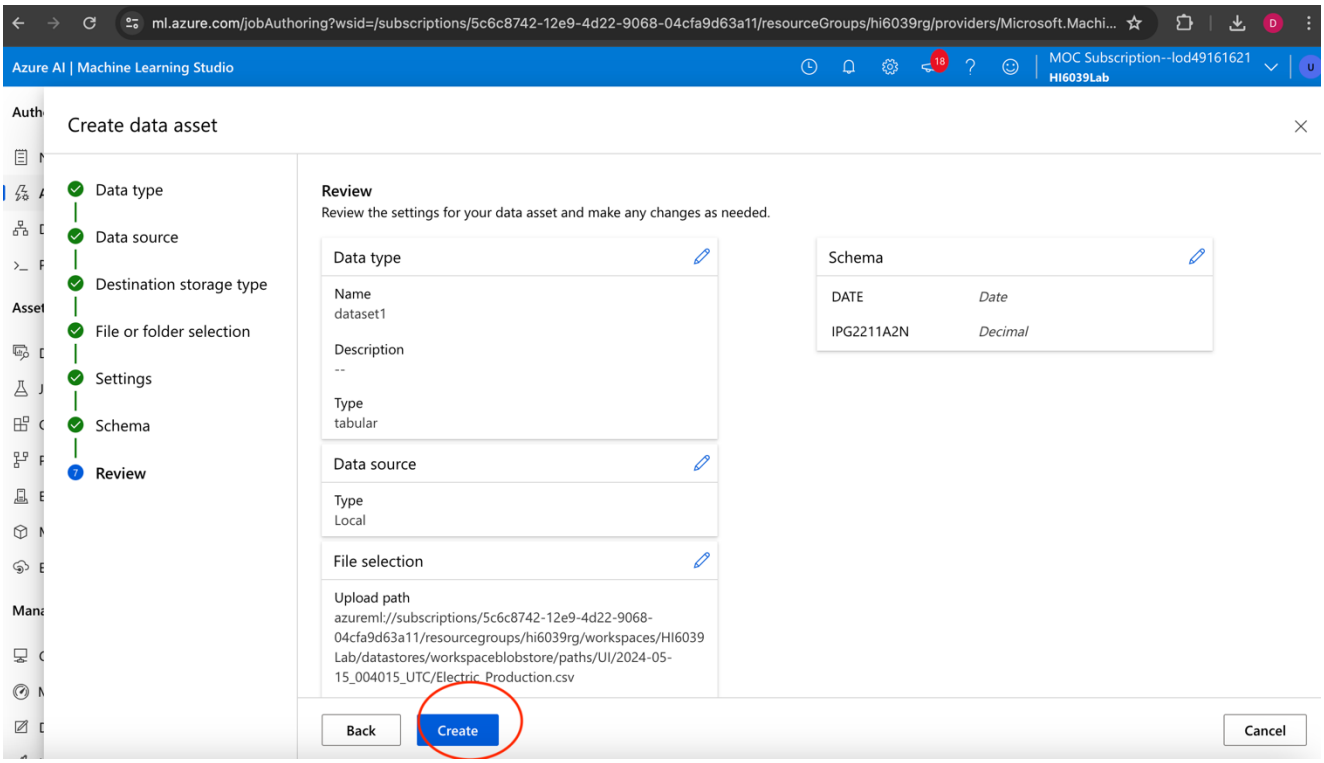
9. Click ‘Next’.



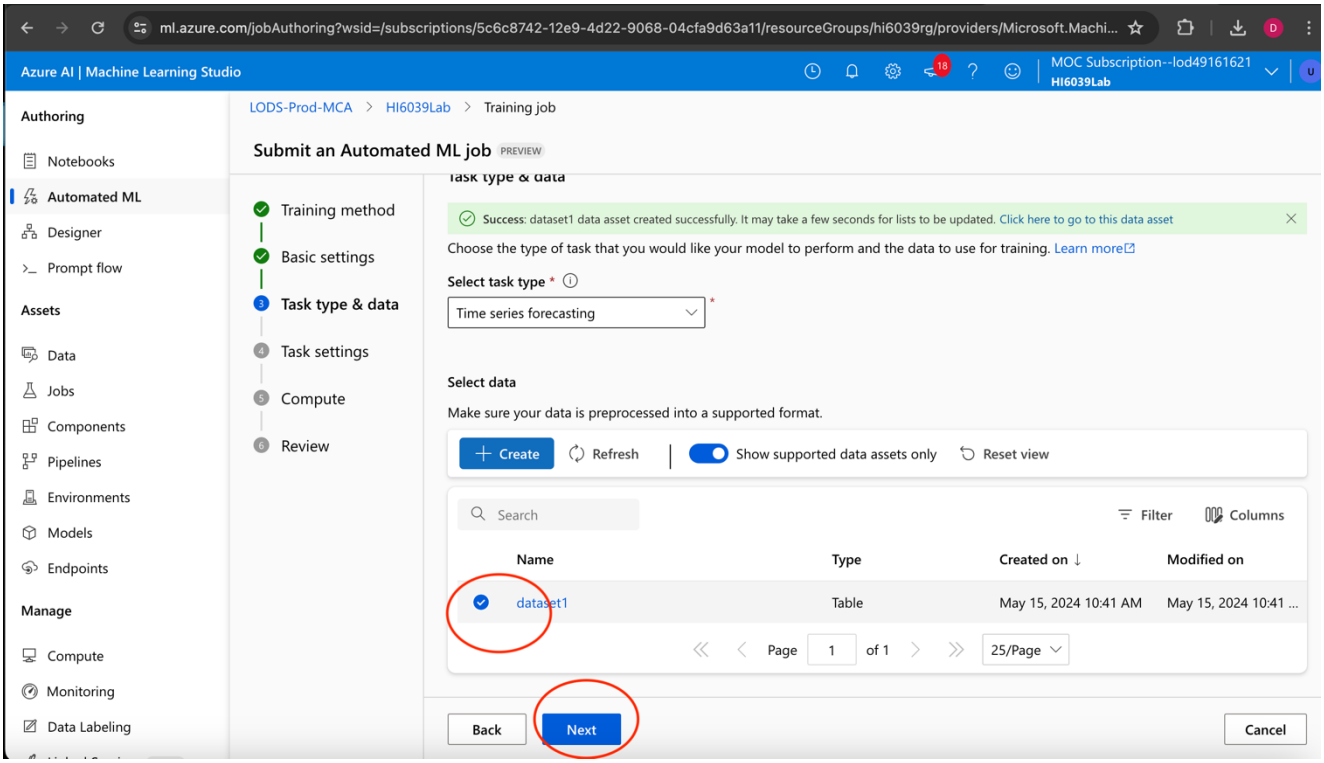
10. Click ‘Next’.



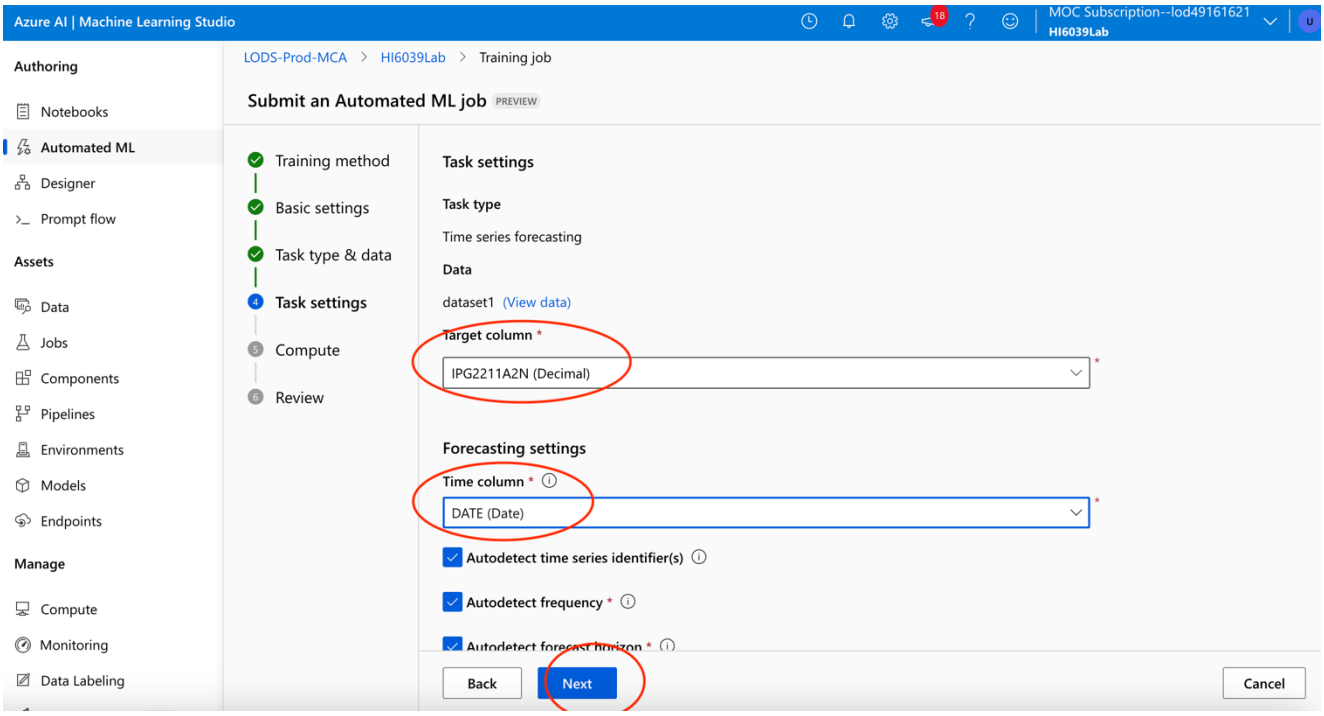
11. Click ‘Create’.



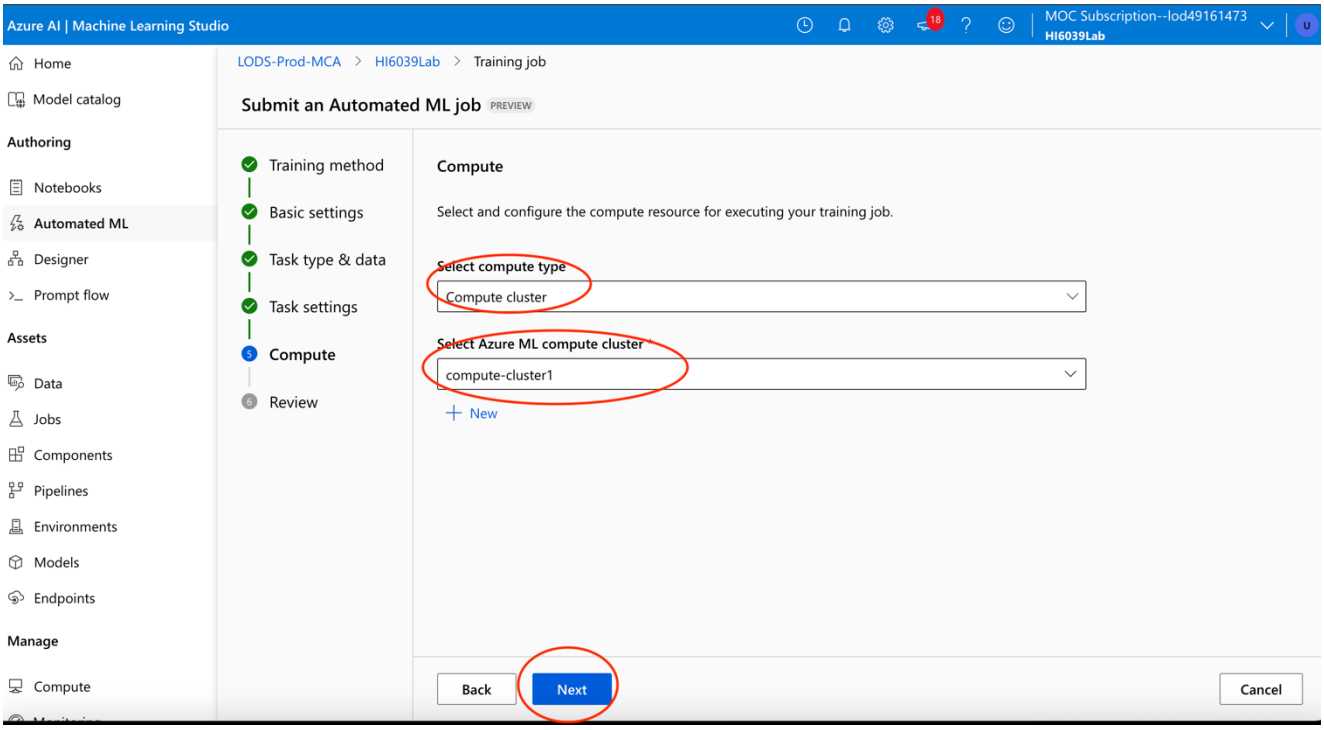
12. Select the dataset, and click ‘Next’.



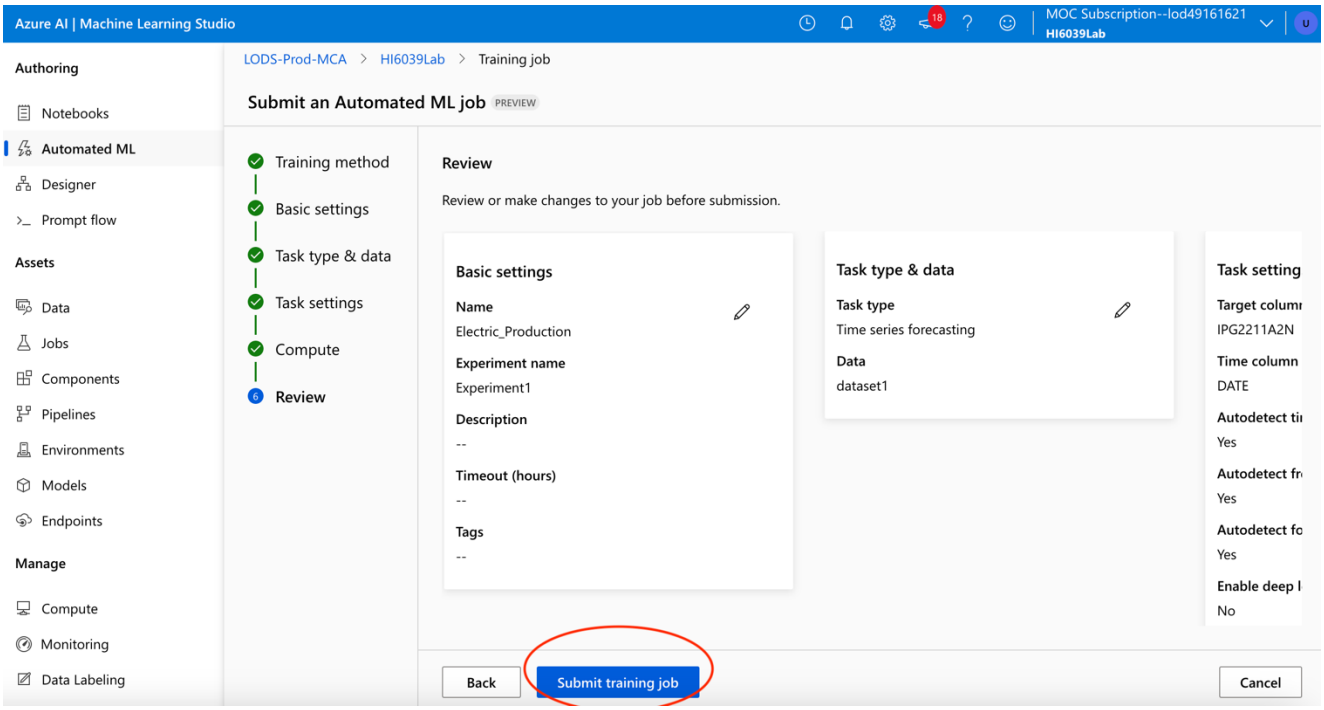
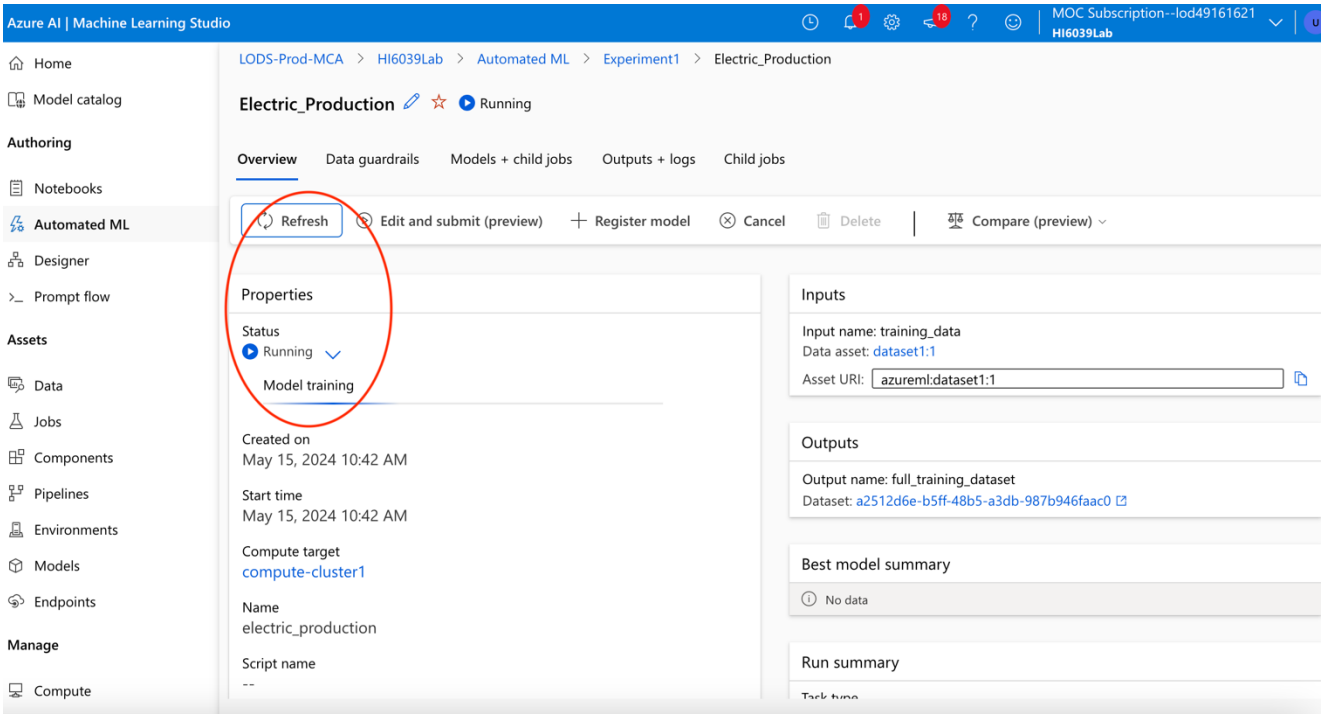
13. Select target column, time column; and click ‘Next’.



14. Select compute type ‘Compute cluster’, select the compute you have already created, and click ‘Next’.



15. Click ‘Submit training job’.



16. Click ‘refresh’ to check status.