

Azure Machine Learning

Dealing with the Select Columns in the inference pipeline job in the new Designer UI.

Default Directory

New

Home

Author

Notebooks

Automated ML

Designer

Assets

Data

Jobs

Components

Pipelines

Environments

Models

Endpoints

Manage

Compute

Dastores

Linked Services

Data Labeling

Default Directory > azuremlws001 > Designer > Authoring

>> Pipeline-Created-on-06-15-2022

Submit

Validate

Clone

Show lineage

AutoSave

Settings

```
graph TD; A[Loan Application v1] -->|Data Output Dataset| B[Select Columns in Dataset select_columns_in_dataset]; B -->|Results/dataset Dataset| C[Clean Missing Data clean_missing_data]; C -->|Cleaned dataset| D[Split Data split_data]; D -->|Results datas...| E[Two-Class Logistic Regression two_class_logistic_regression]; D -->|Results datas...| F[Train Model train_model]; E -->|Untrained model| G[Train Model train_model]; F -->|Trained model| H[Score Model score_model]; G -->|Untrained mod... Dataset| H; H -->|Trained model Dataset| I[Score Model score_model]; I -->|Scored dataset| J[Evaluate Model evaluate_model]; J -->|Evaluation results| K[ ];
```

Create the pipeline and Submit.

Navigator

80%

Default Directory > azuremlws001 > Designer > Authoring

Default Directory

Pipeline-Created-on-06-15-2022

Saved on 6/21/2022, 10:35:22 PM

Submitted jobs

Here is a list of your recently submitted jobs from the last 30 days. A page reload will clear out the content. See all submitted jobs [here](#)

☐ Waiting for response from the service.

Set up pipeline job

Experiment

☒ Select existing ☐ Create new

Existing experiment *

jkexpr002

Job display name

Pipeline-Created-on-06-15-2022

Job description

Pipeline created on 20220615

Job tags

 : + 

☒ Continue on failure step

Submit

Cancel



Default Directory

+ New

Home

Author

Notebooks

Automated ML

Designer

Assets

Data

Jobs

Components

Pipelines

Environments

Models

Endpoints

Manage

Compute

Datastores

Linked Services

Data Labeling

Default Directory > azuremlws001 > Designer > Authoring



Submitted jobs

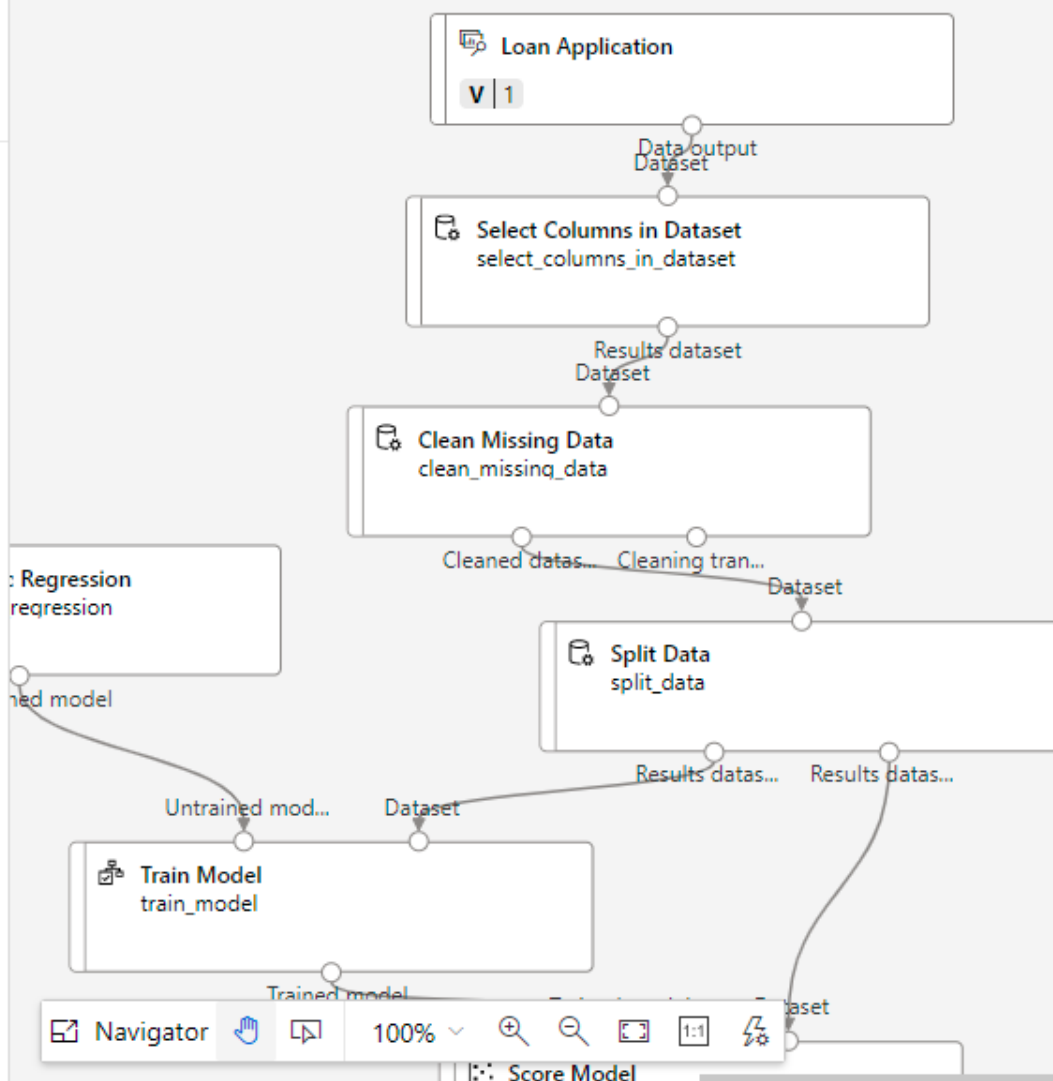
Here is a list of your recently submitted jobs from this draft. A page reload will clear out the content. See all your submitted jobs [here](#).

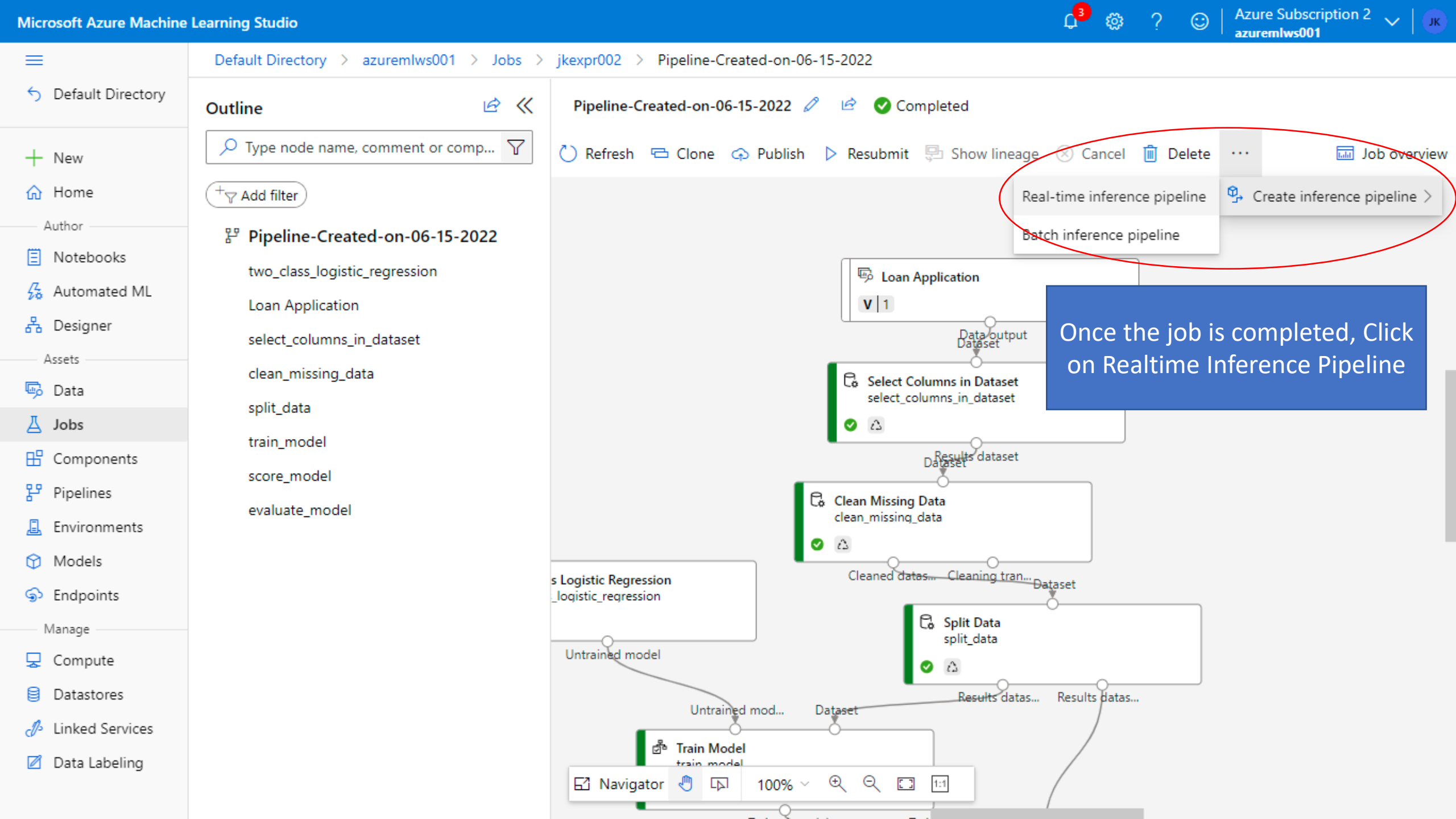
✓ **Pipeline-Created-on-06-15-2022** Completed
[Job detail](#) Submitted at 2022/06/21 22:35:36

Click on Job Details

Pipeline-Created-on-06-15-2022

✓ Saved on 6/21/2022, 10:35:22 PM

[Submit](#) [Validate](#) [Clone](#) [Show lineage](#) [AutoSave](#) [Settings](#)



Tags = azureml.Designer:true

Created by = Microsoft

+ Add filter

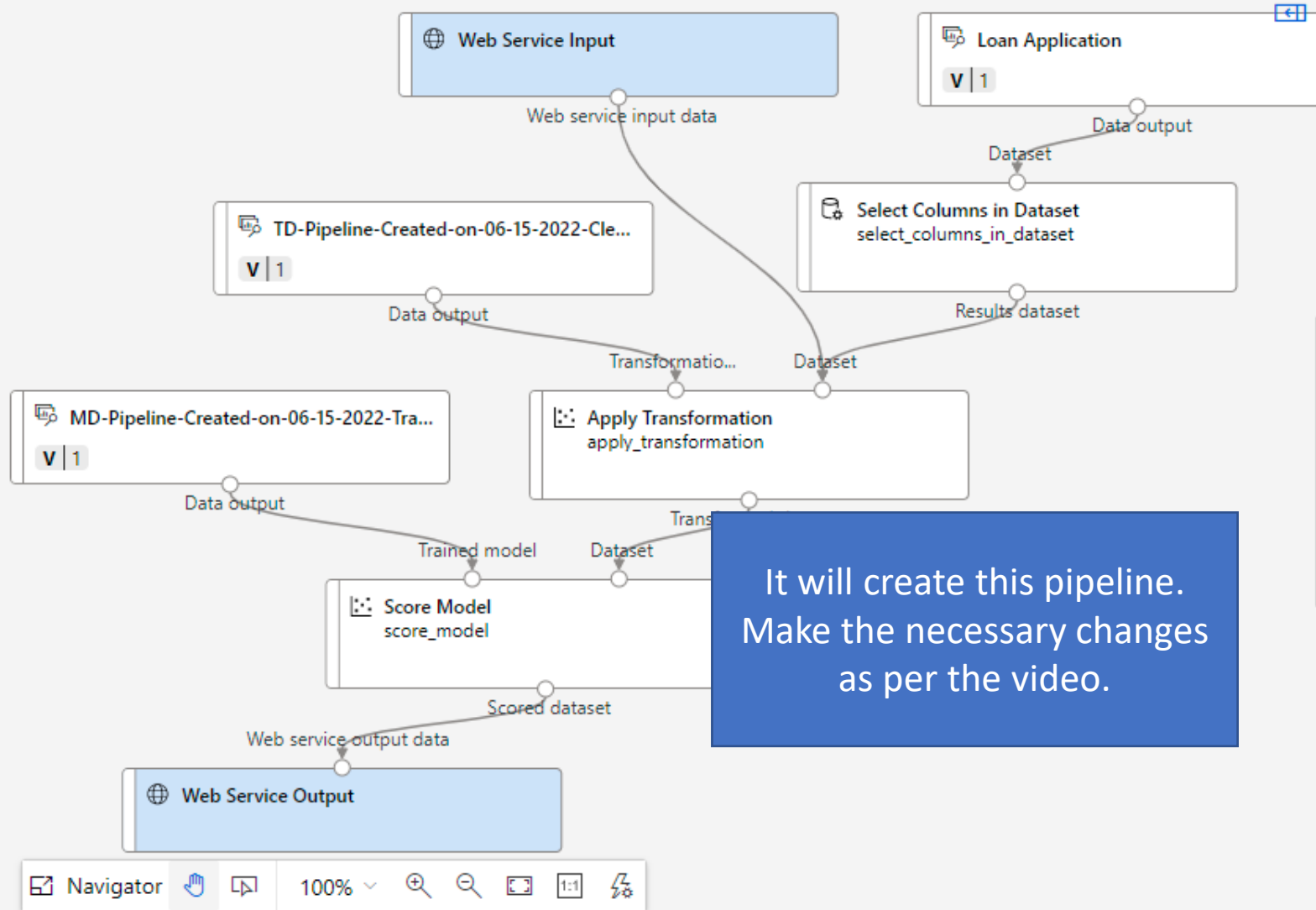
Data

Component

79 assets

- ▶ Data Transformation (19)
- ▶ Computer Vision (6)
- ▶ Model Scoring & Evaluation (6)
- ▶ Machine Learning Algorithms (19)
- ▶ Text Analytics (7)
- ▶ Python Language (2)
- ▶ Data Input and Output (3)
- ▶ Recommendation (5)
- ▶ R Language (1)
- ▶ Feature Selection (2)
- ▶ Anomaly Detection (2)
- ▶ Statistical Functions (1)
- ▶ Model Training (4)
- ▶ Web Service (2)

Submit Validate Clone Show lineage ↺ ↻ ⌨ AutoSave ⚙ Settings



It will create this pipeline.
Make the necessary changes
as per the video.

[Default Directory](#) > [azuremlws001](#) > [Designer](#) > [Authoring](#)


↩ Default Directory

+ New

[Home](#)


Author

 Notebooks

 Automated ML


 Designer

Assets

 Data

 Jobs

Components

 Pipelines

Environments

 Models

Endpoints

Manage

 Compute

 Databases

 Linked Services

 select  

Tags = azureml.Designer:true

Created by = **Microsoft** Add filter

Data

Component

6 assets Most relevant

Filter Based Feature Selection

 Microsoft

Identifies the features in a dataset with the greatest predictive power. [\[Learn More\]](https://aka.ms/aml/)(https://aka.ms/aml/...

azureml.Designer:true ... 5/12/2022

 **Select Columns Transform**

 Microsoft

Create a transformation that **selects** the same subset of columns as in the given dataset. [\[Learn More\]](#)(htt...

azureml.Designer:true ... 5/12/2022

 Select Columns in Dataset

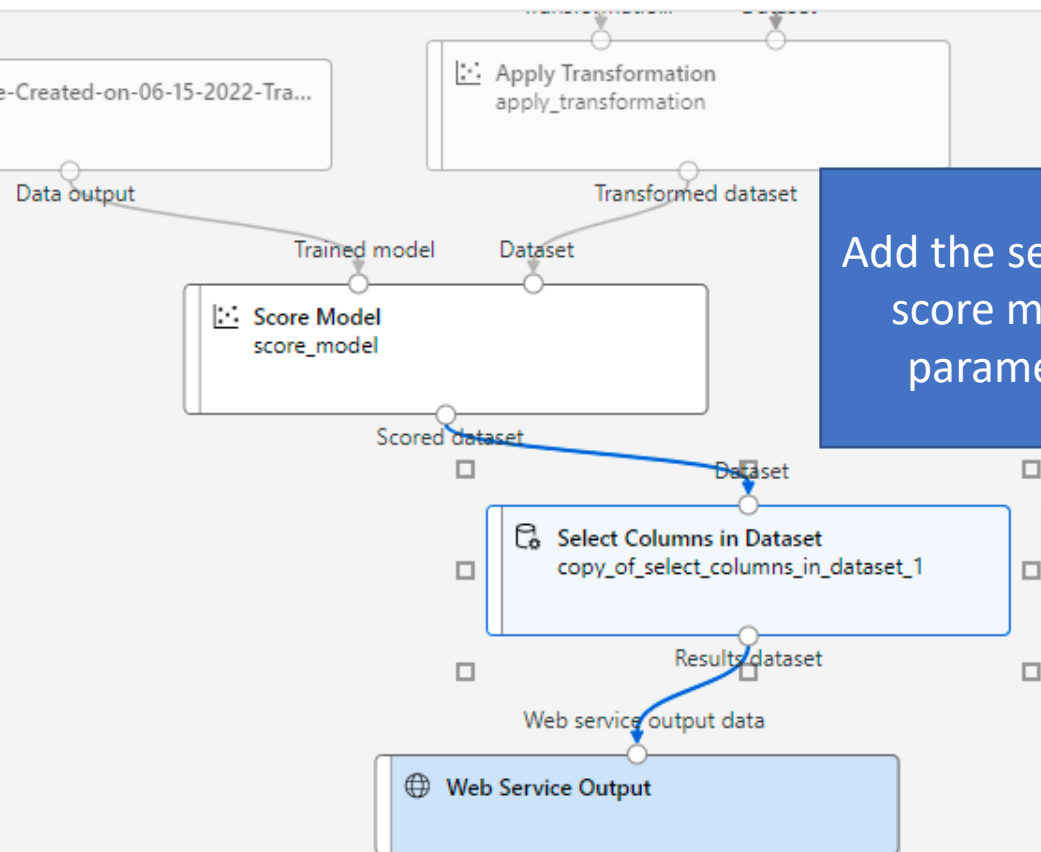
Microsoft

Selects columns to include or exclude from a dataset in an operation. [Learn More](https://aka.ms/aml/s...)

azureml.Designer:true ... 5/12/2022









Pipeline-Created-on-06-15-2022-real time inference

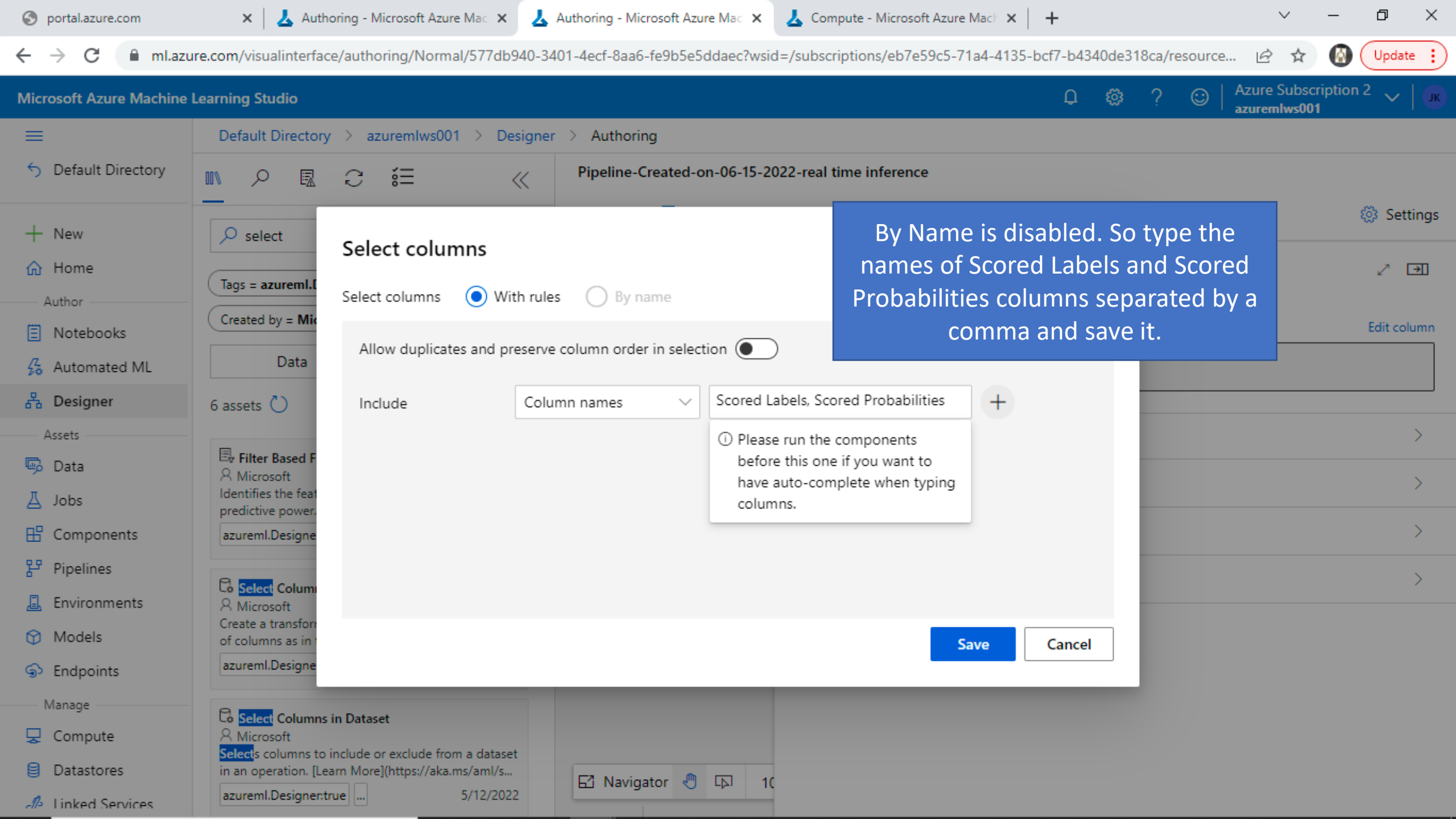
Submit Validate Clone Show lineage ↺ ↻ ↻ AutoSave

 Settings

Add the select columns after the score model and access the parameters/edit columns.

Parameters

 Navigator
 

 100%
 







Select columns

Select columns ☒ With rules ☐ By name

Allow duplicates and preserve column order in selection ☐

Include

Column names



Scored Labels, Scored Probabilities




















ⓘ Please run the components before this one if you want to have auto-complete when typing columns.

Save

Cancel

By Name is disabled. So type the names of Scored Labels and Scored Probabilities columns separated by a comma and save it.


- 
- Default Directory
-  New
-  Home
- Author
-  Notebooks
-  Automated ML
-  Designer
- Assets
-  Data
-  Jobs
-  Components
-  Pipelines
-  Environments
-  Models
-  Endpoints
- Manage
-  Compute
-  Datastores
-  Linked Services
-  Data Labeling

Default Directory > azuremlws001 > Jobs > jkexpr002 > PipelineRTIJob2

Outline

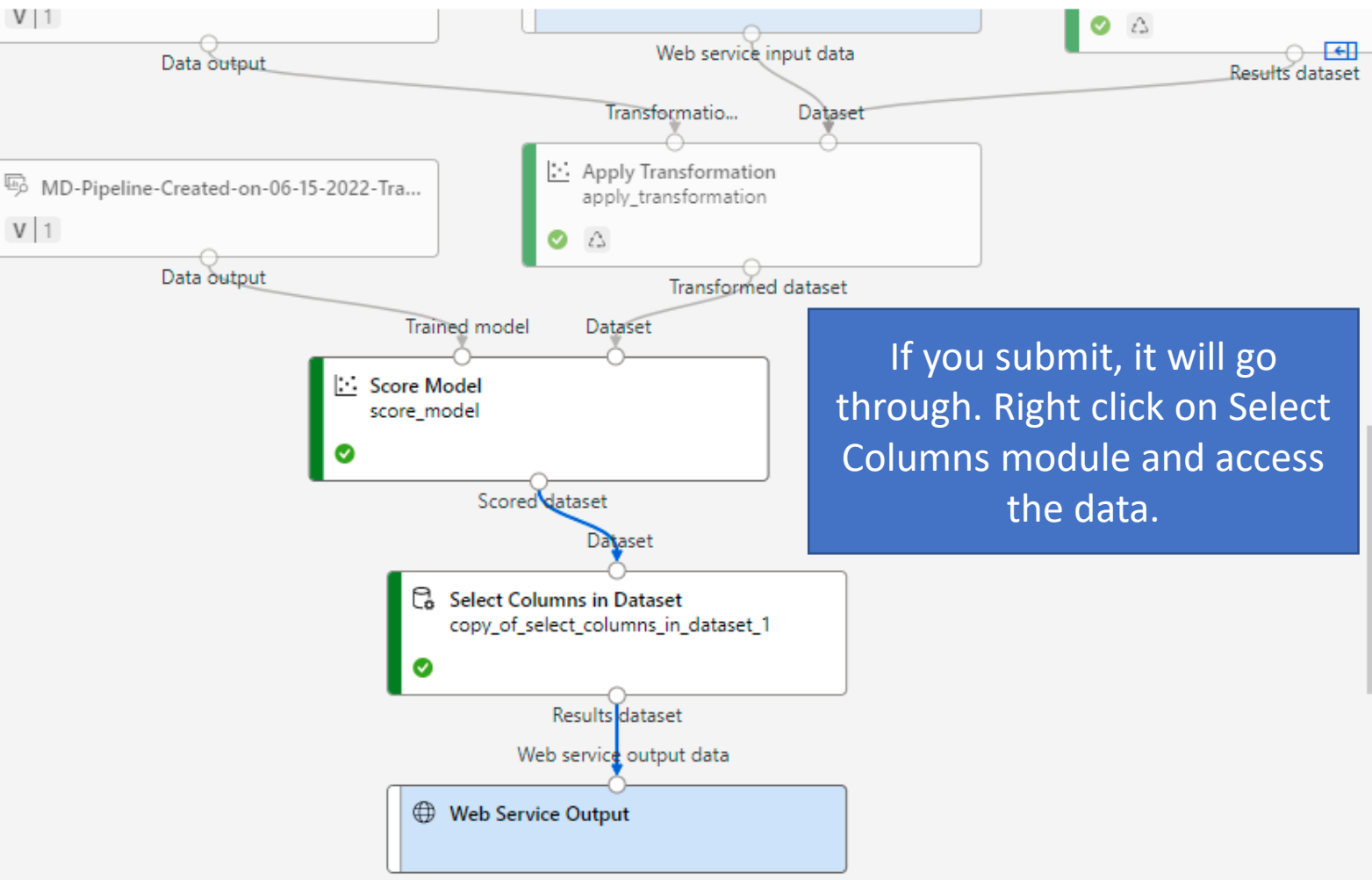
Type node name, comment or comp...

Add filter


















-  PipelineRTIJob2
- TD-Pipeline-Created-on-06-15-2022-Clean...
- MD-Pipeline-Created-on-06-15-2022-Train...
- Loan Application
- select_columns_in_dataset
- apply_transformation
- score_model
- copy_of_select_columns_in_dataset_1

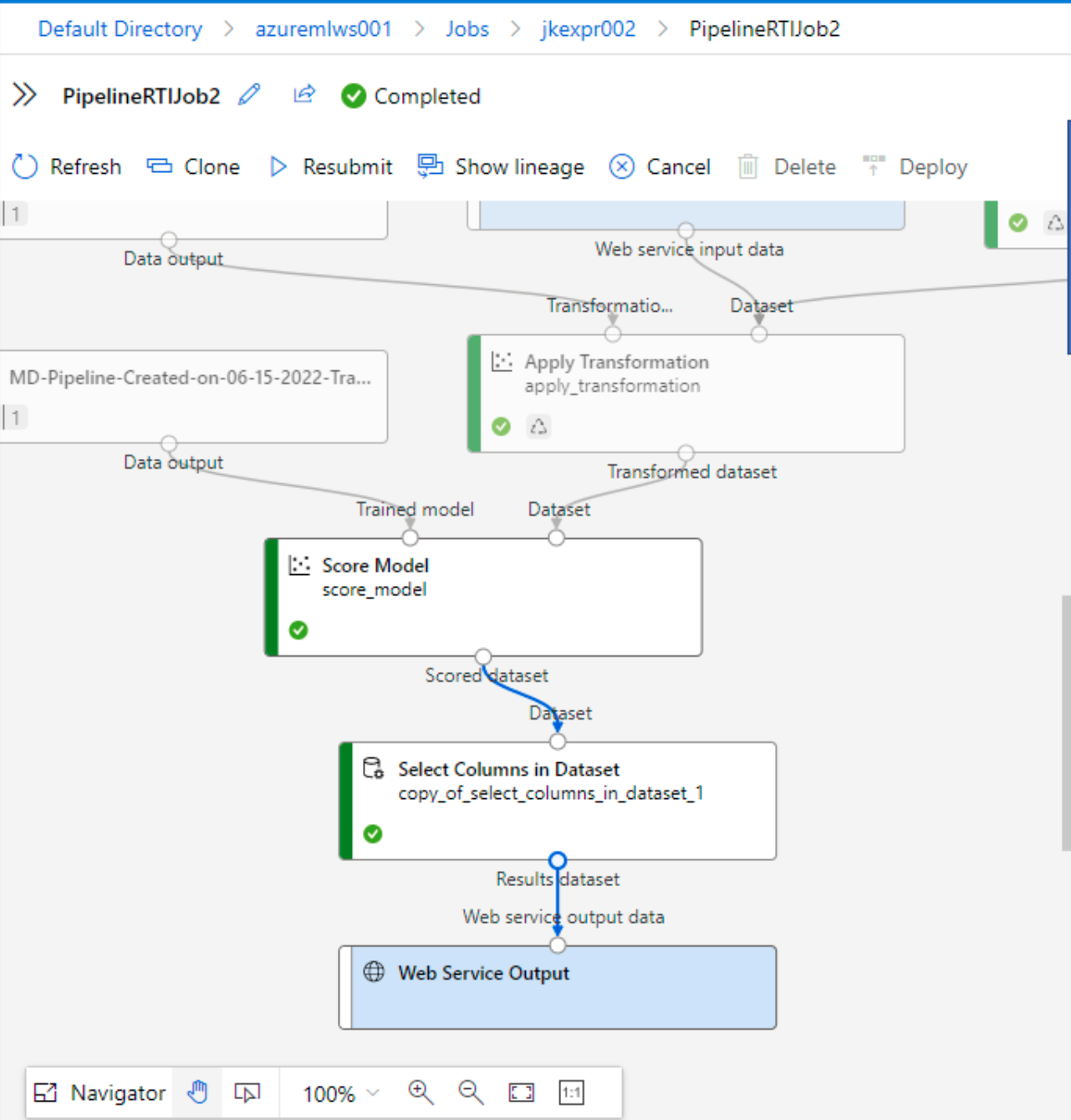
PipelineRTIJob2

Refresh Clone Resubmit Show lineage Cancel Delete Deploy Job overview





If you submit, it will go through. Right click on Select Columns module and access the data.

- 
- Default Directory
-  New
-  Home
- Author
-  Notebooks
-  Automated ML
-  Designer
- Assets
-  Data
-  Jobs
-  Components
-  Pipelines
-  Environments
-  Models
-  Endpoints
- Manage
-  Compute
-  Datastores
-  Linked Services
-  Data Labeling



Now only the two columns are selected.

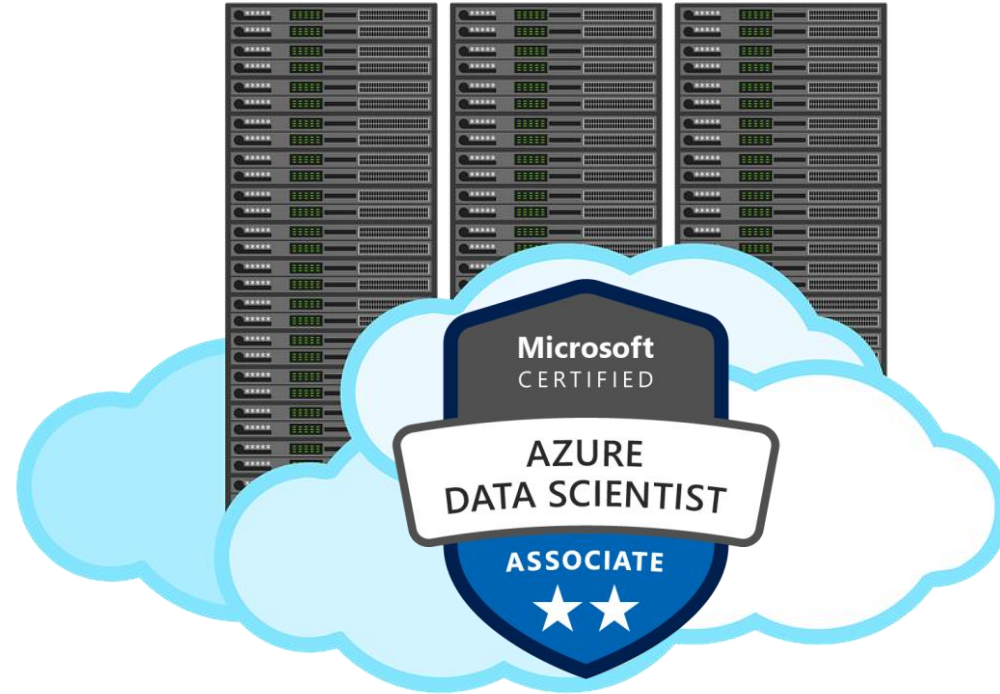
Job overview

| Scored Labels | Scored Probabilities |
|---|---|
|  |  |
| Y | 0.825878 |
| Y | 0.798159 |
| Y | 0.733239 |
| Y | 0.790362 |
| Y | 0.736667 |
| Y | 0.741689 |
| N | 0.16793 |
| Y | 0.813852 |
| Y | 0.776042 |
| Y | 0.838677 |
| Y | 0.802891 |
| Y | 0.790534 |
| Y | 0.8482 |
| Y | 0.793223 |
| N | 0.159226 |
| Y | 0.733855 |

To view, select a column in the table



Azure Machine Learning



Thank You..!!