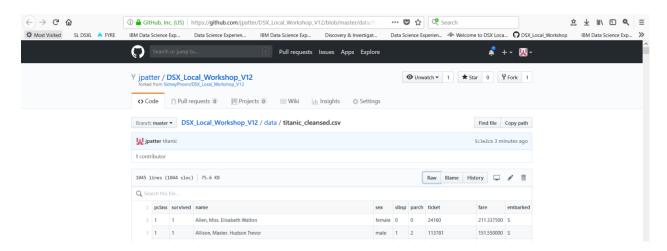
Watson Machine Learning Overview

This lab will introduce the Watson Machine Learning capability using the Titanic dataset. The lab will consist of the following steps:

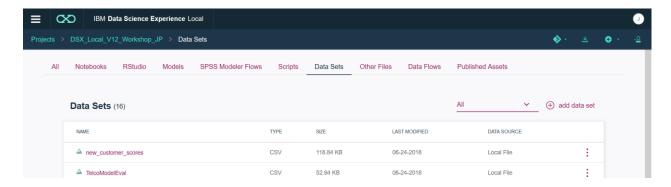
- 1. Adding a data asset to the DSXL project
- 2. Creating a Model to predict whether a person would survive
- 3. Testing the Model

Step 1: Adding a Data Asset to the project

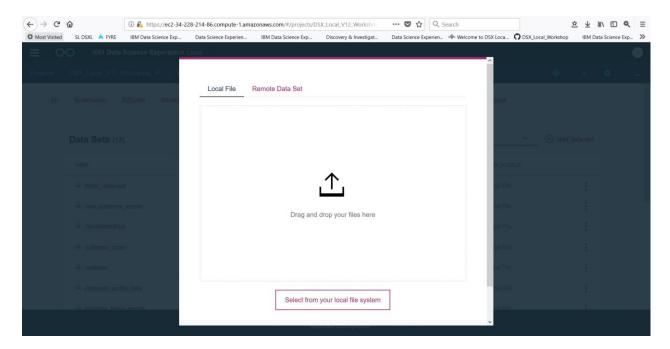
- 1. Download the Titanic data file from the following location by clicking on the link Cleansed Titanic Data Set and following the instructions below.
- 2. Right-click on Raw and select Save link as...



- 3. Save the file in your local filesystem
- 4. In your DSXL project go to **Data Sets** and select **add data set**

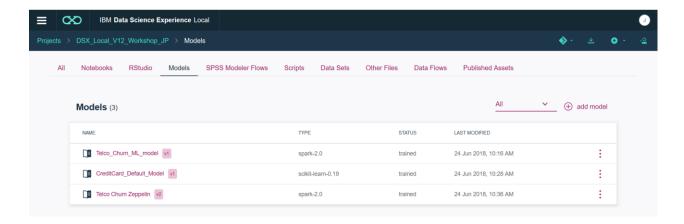


5. **Browse** or drag the **titanic_cleansed.csv** file

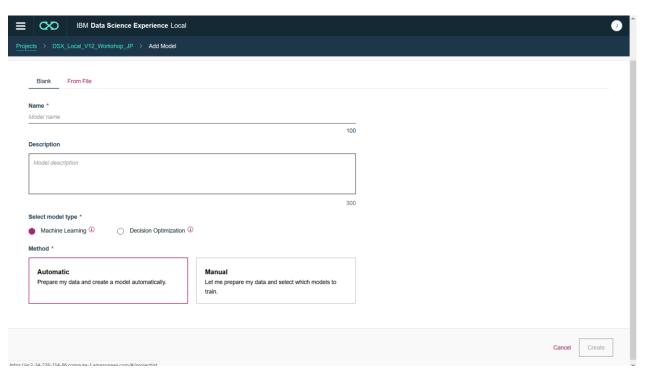


Step 2: Create a Model to predict survival

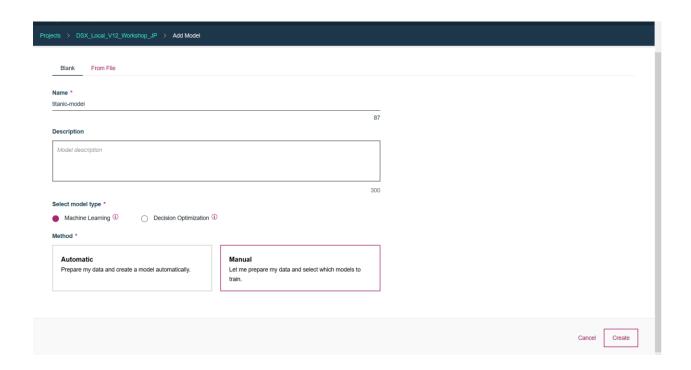
1. Select the Models tab



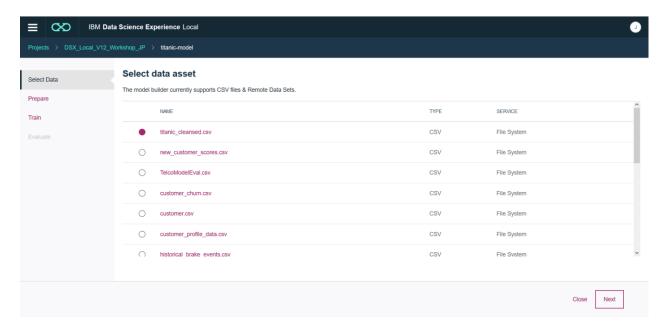
2. Select add model



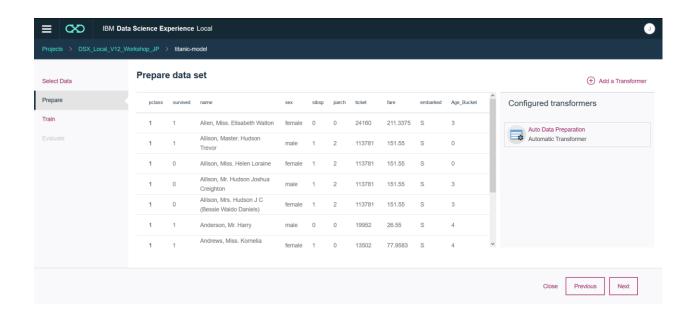
3. Enter a model **Name** (eg Titanic), optionally a **Description**, select **model type** of **Machine Learning** and select **Method** of **Manual**. Click on **Create**.



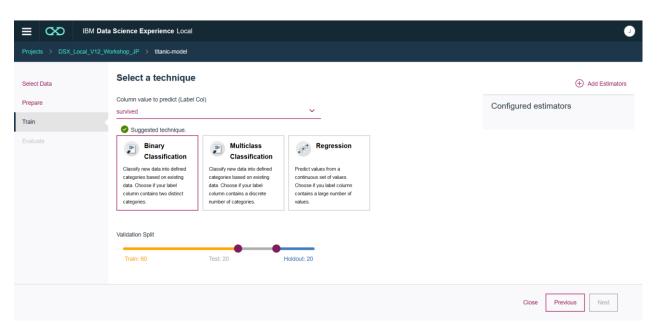
4. Click on the titanic_cleansed.csv and click on Next



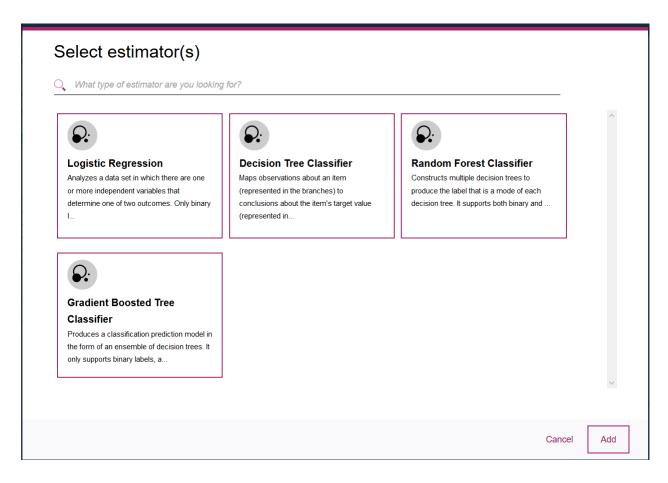
5. Select **Add a transformer** to see all available transformers. **Cancel** and use the configured **Auto Data Preparation** transformer. Select **Next.**



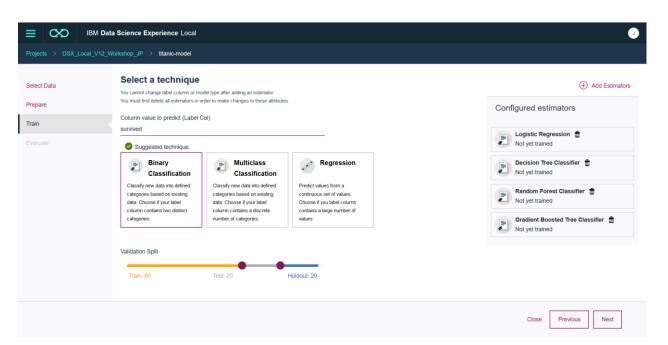
6. Select **Label Column** to **survived**. This will automatically set **Suggested technique** to Binary Classification.



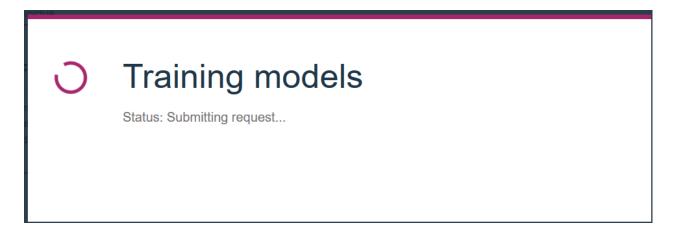
7. Select **Add Estimators.** Select all estimators and select **Add.**



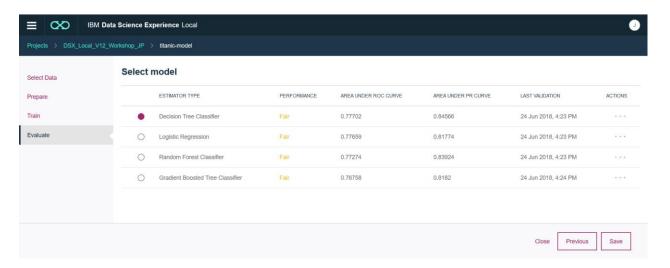
8. Select Next.



9. Wait for all models to be trained



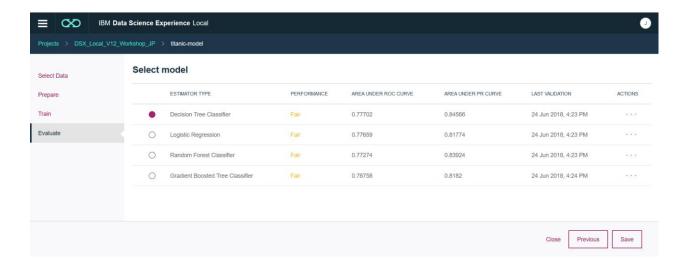
10. Review model performance. Models are ranked from best to worst performing.



Step 3: Saving and Testing a Model

We can deploy the model to enable applications to invoke it via an API call. This is a Web Service deployment or Online deployment.

1. Select the **Save** button for the model you wish to deploy



2. Confirm the save.



3. The model now exists inside the **Models** tab of the project

