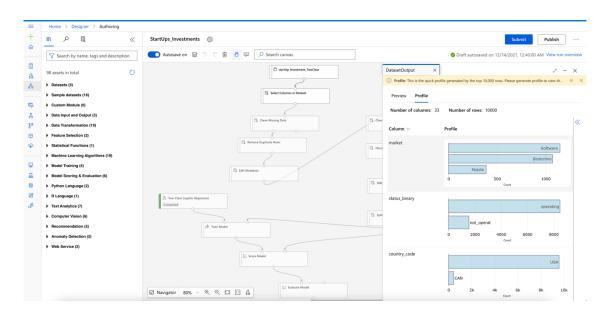
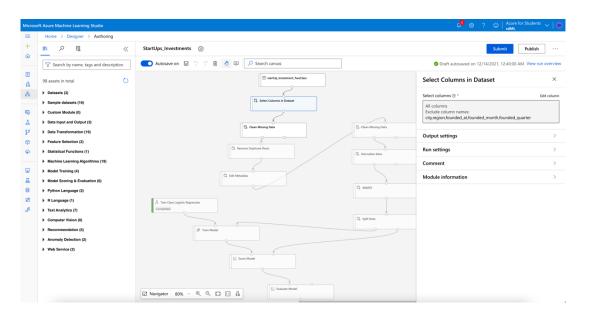
Configurations and parameters of the Modules

Step 1: Adding Dataset to Azureblobstorage

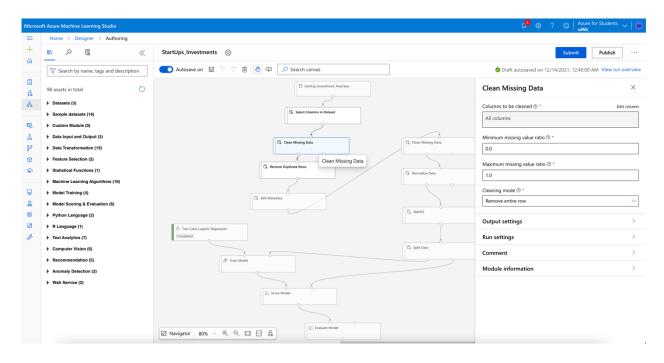
The status column originally has 3 classes / labels. A new column was created "status_binary" that contains two categorical values i.e., (a)operating and (b) non-operating. 'Operating' values are the rows for which the original status was either "Operating" or "acquired". The file path for the dataset added to the designer is given below.



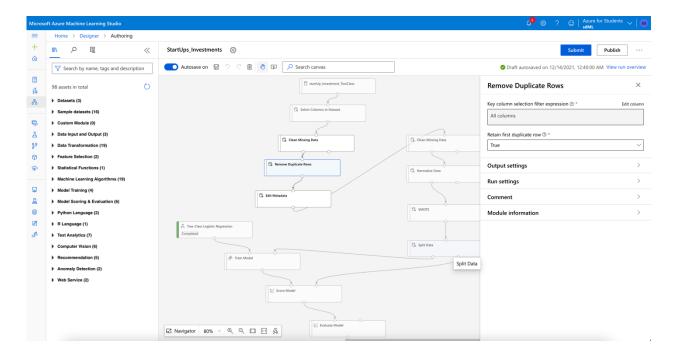
Step2: Select columns in the dataset(row_count = 19958, col_count = 28)



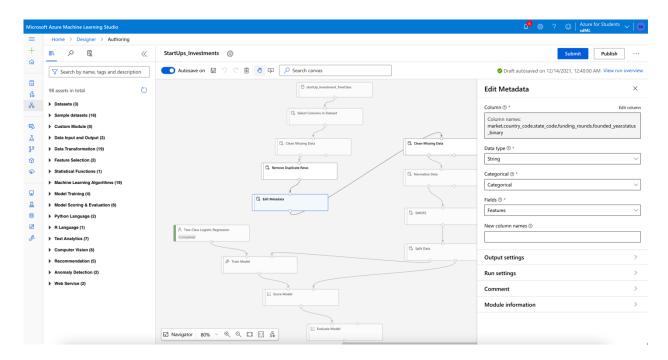
Step 3: Clean Missing Data(row_count = 19958, col_count = 28)



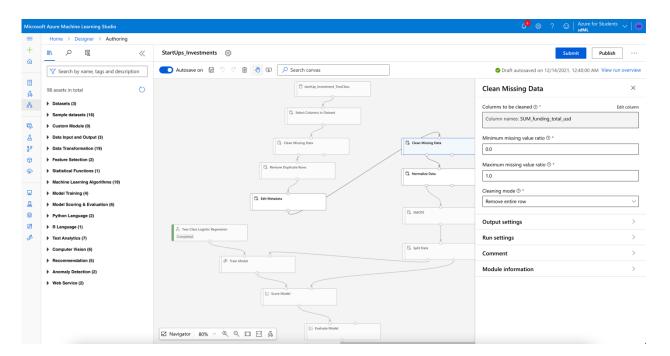
Step 4: Remove Duplicate Rows(row_count = 19907, col_count = 28)



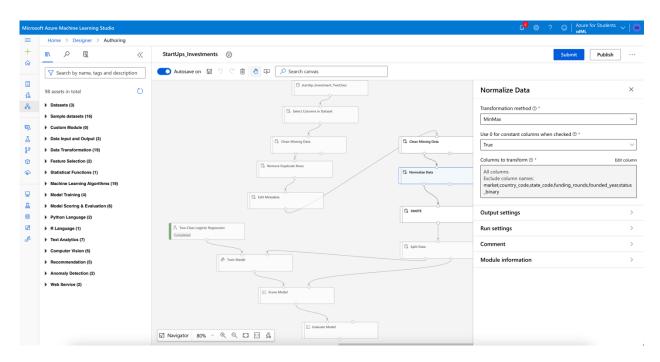
Step 5: Edit Metadata(row_count = 19907, col_count = 28)



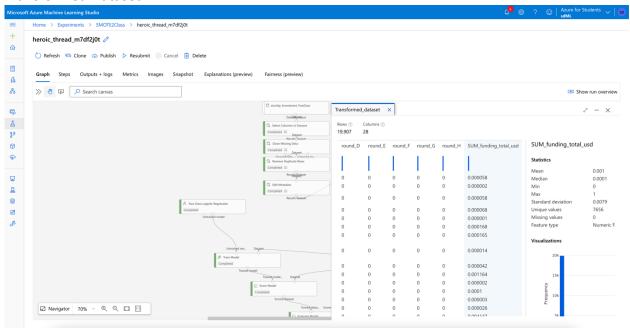
Step 5: Clean Missing Data(row_count = 19907, col_count = 28) Usually should be put after "Clip Values" module for removing outliers in "SUM_funding_total_usd" column.



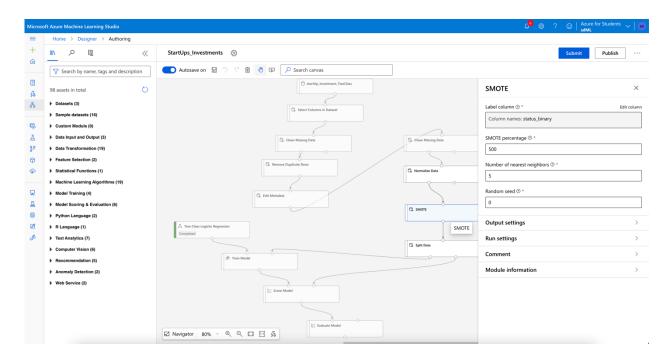
Step 6: Normalize Data(row_count = 19907, col_count = 28)



Transformed Dataset

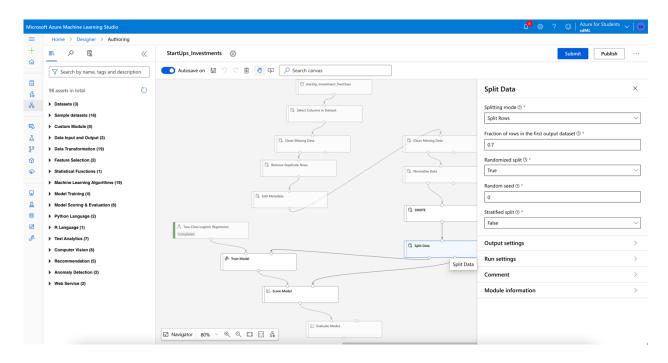


Step 7: SMOTE for handling imbalanced classes (row_count = 35667, col_count = 28) SMOTE — Synthetic Minority Oversampling Technique is a type of data augmentation for the minority class. Using this new examples can be synthesized from the existing examples for balancing the data.

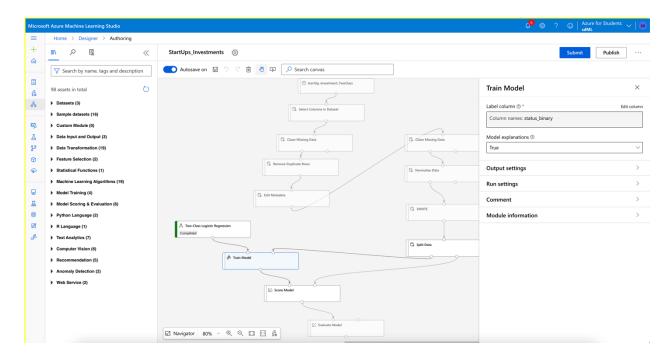


Step 8: Split Data

(Result Dataset1: (row_count = 24967, col_count = 28), Result Dataset2: (row_count = 10700, col_count = 28)

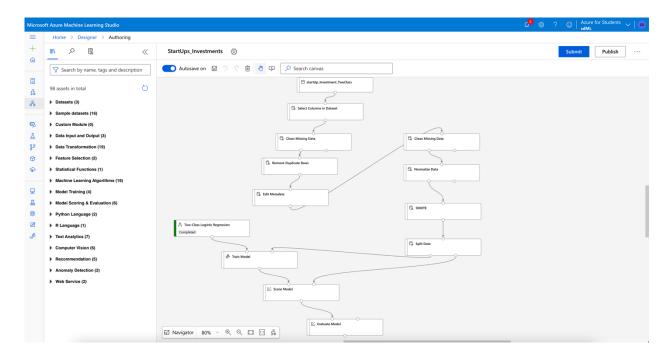


Step 9: Train Model

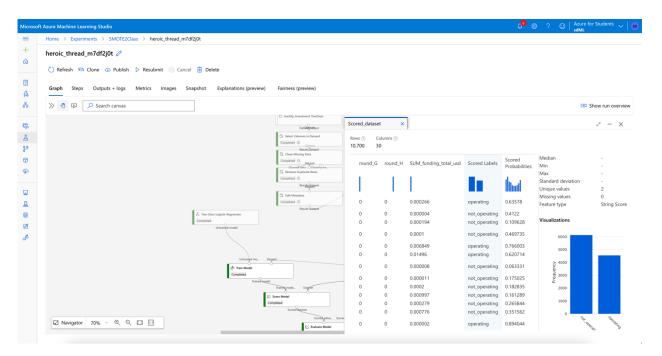


Step 10: Score Model & Evaluate Model (row_count = 10700, col_count = 30)
Not-operating: 6141, Operating: 4559

Screenshot of the complete Pipeline Execution



Results Scored Label Statistics (Distribution of the two-classes)



Evaluation Metrics

