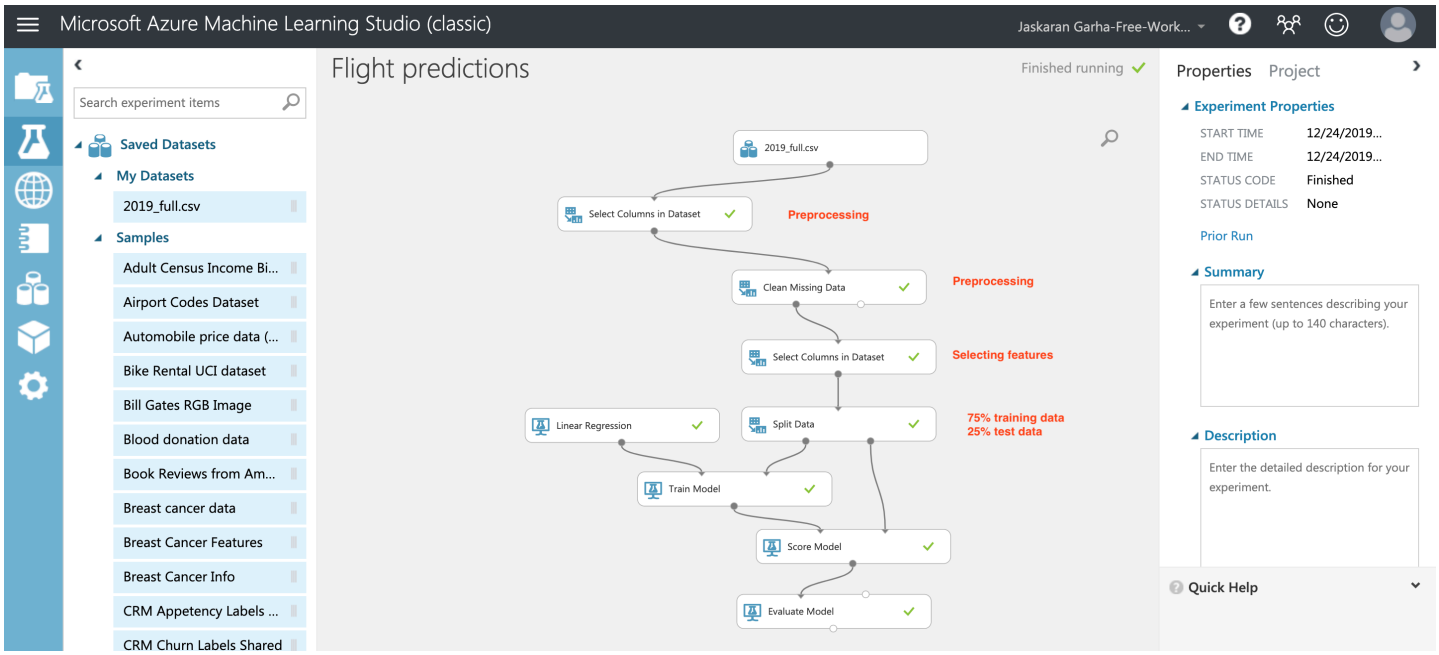
Predictive Analysis

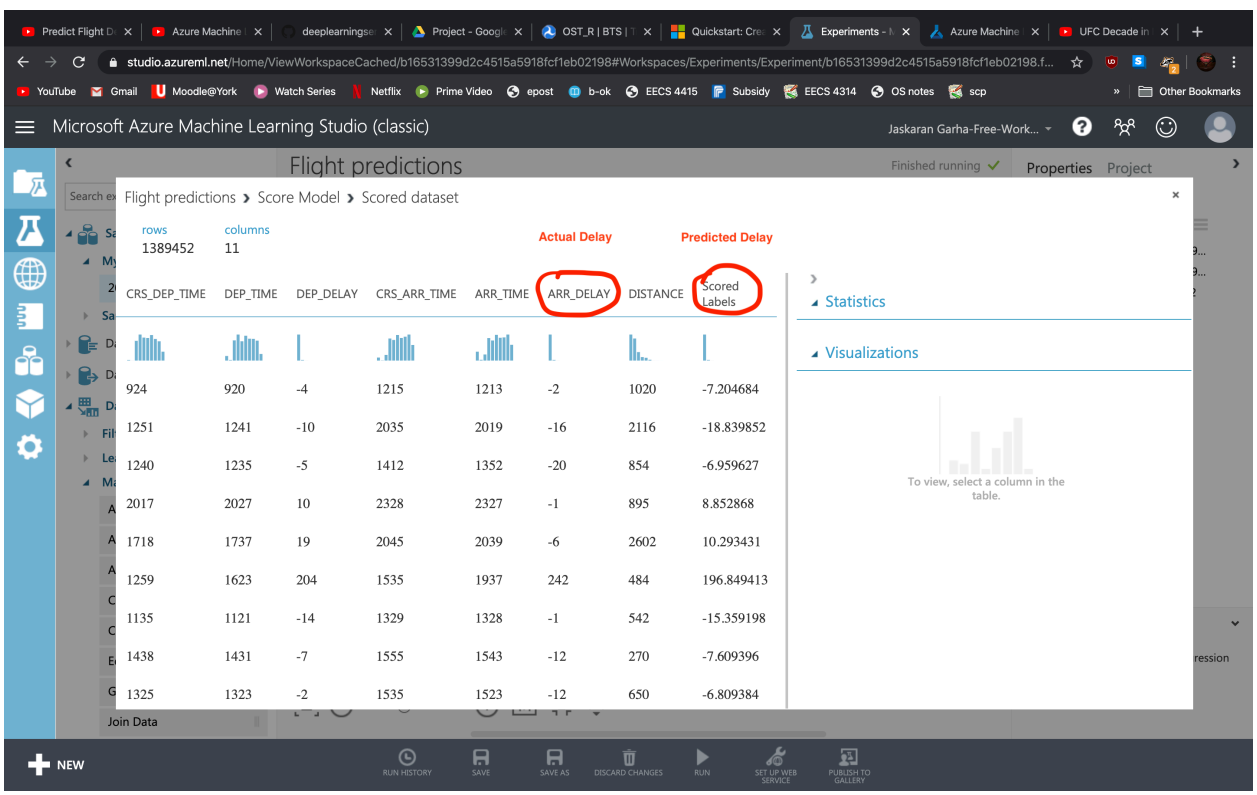
Microsoft Azure Machine Learning Studio (classic)

Reference used: https://docs.microsoft.com/en-us/azure/machine-learning/studio/create-experiment#prepare-the-data

1. Data Flow



2. Actual Arrival Delay vs. Predicted Arrival Delay



CRS_DEP_TIME	DEP_TIME	DEP_DELAY	CRS_ARR_TIME	ARR_TIME	ARR_DELAY	DISTANCE	Scored Labels
924	920	-4	1215	1213	-2	1020	-7.204684
1251	1241	-10	2035	2019	-16	2116	-18.839852
1240	1235	-5	1412	1352	-20	854	-6.959627
2017	2027	10	2328	2327	-1	895	8.852868
1718	1737	19	2045	2039	-6	2602	10.293431
1259	1623	204	1535	1937	242	484	196.849413
1135	1121	-14	1329	1328	-1	542	-15.359198
1438	1431	-7	1555	1543	-12	270	-7.609396
1325	1323	-2	1535	1523	-12	650	-6.809384

3. **Testing Accuracy**

Metrics

Mean Absolute Error	9.367372
Root Mean Squared Error	14.516961
Relative Absolute Error	0.36888
Relative Squared Error	0.078081
Coefficient of Determination	0.921919