



DAT102X Azure ML

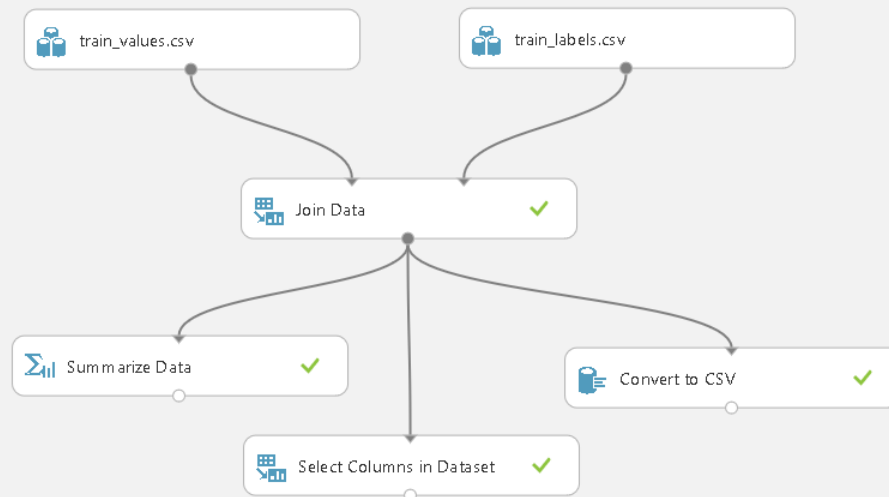
SUMMARY OF METHODS IMPLEMENTED

Dennis Lam | MPP Data Science Capstone Project | October 2018

Data Analysis

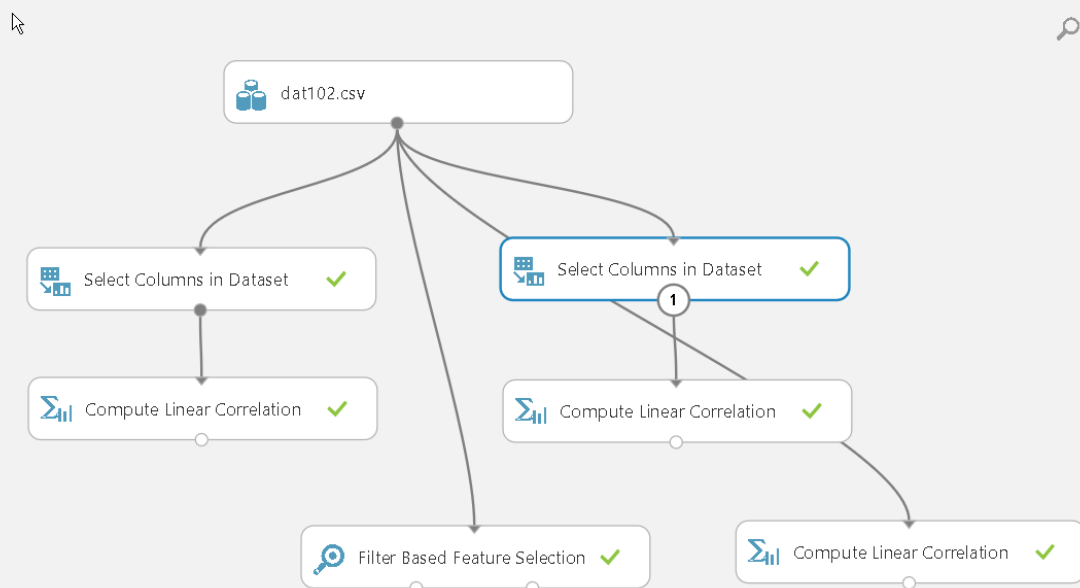
Summary and Join 2 datasets for analysis.

DAT102x - Data Analysis Part 1

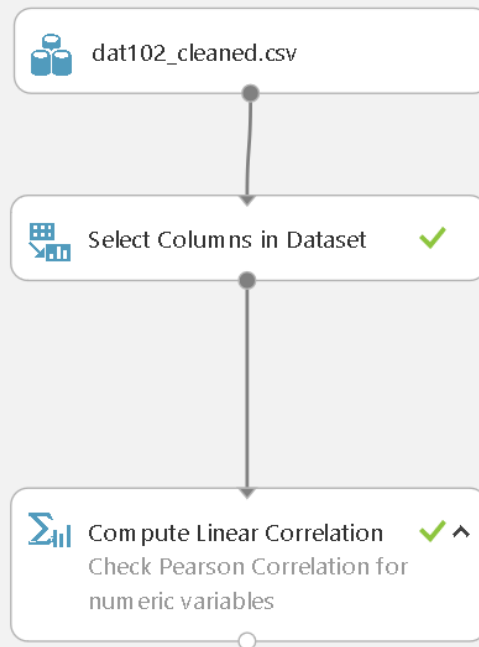


DAT102x - Data Analysis Part 1

Finished running

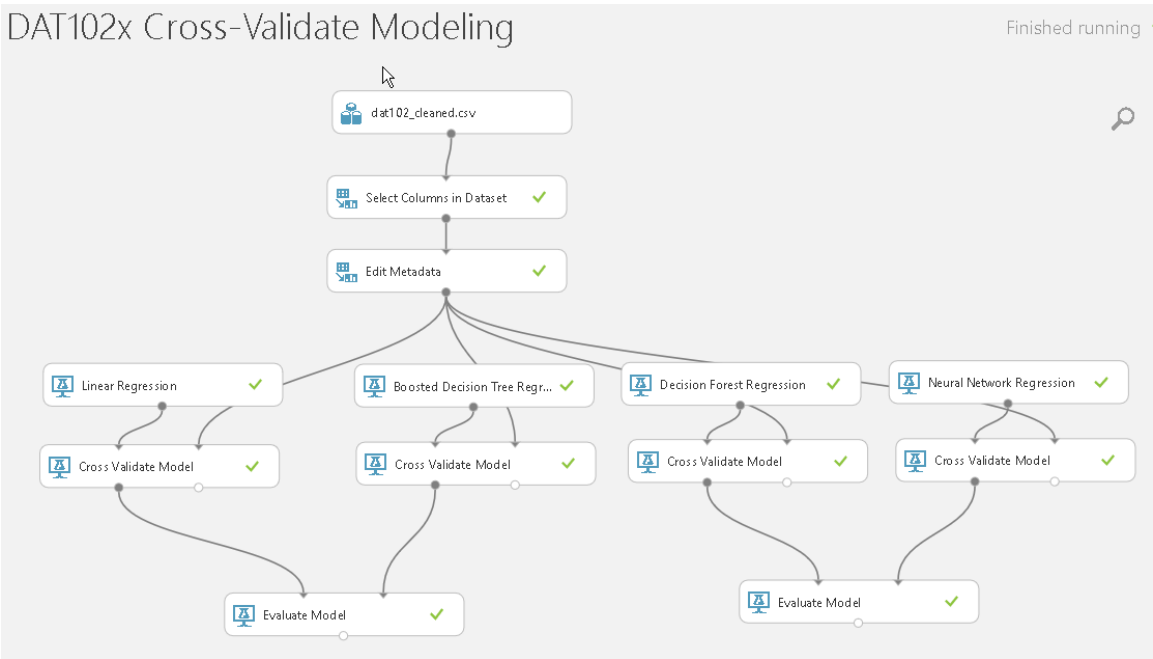


DAT102x - Data Analysis Part 2



Feature Selection

Try cross-validate and compare between Regression models



DAT102x Cross-Validate Modeling > Evaluate Model > Evaluation results

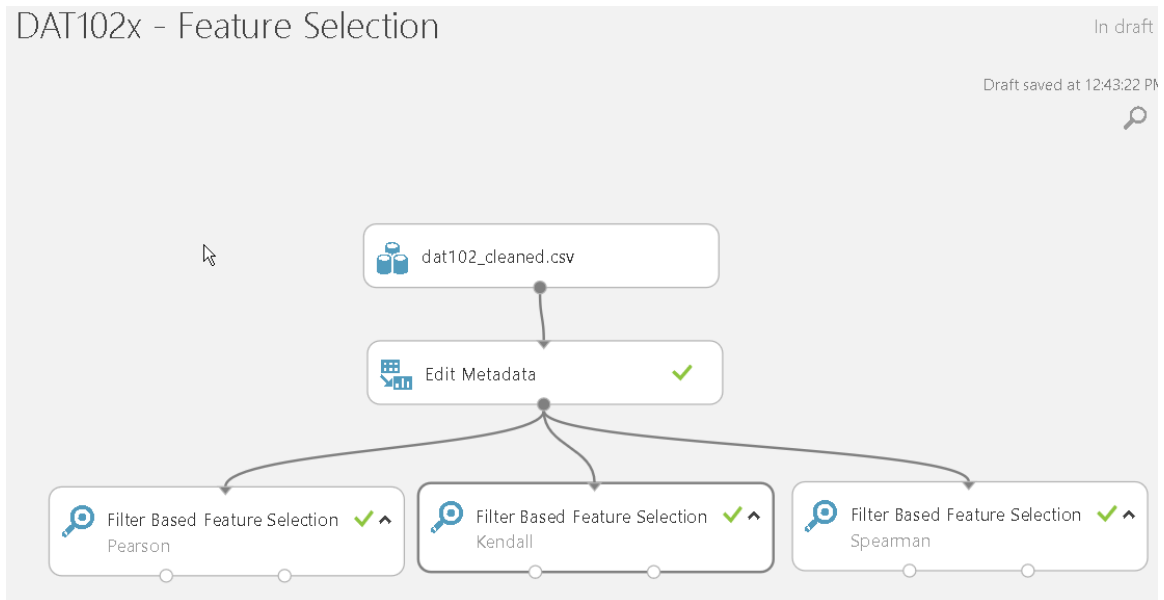
Metrics		Metrics	
Mean Absolute Error	5.813246	Mean Absolute Error	1.915603
Root Mean Squared Error	7.880865	Root Mean Squared Error	2.876031
Relative Absolute Error	0.619212	Relative Absolute Error	0.204045
Relative Squared Error	0.460893	Relative Squared Error	0.061382
Coefficient of Determination	0.539107	Coefficient of Determination	0.938618

Error Histogram		Error Histogram	
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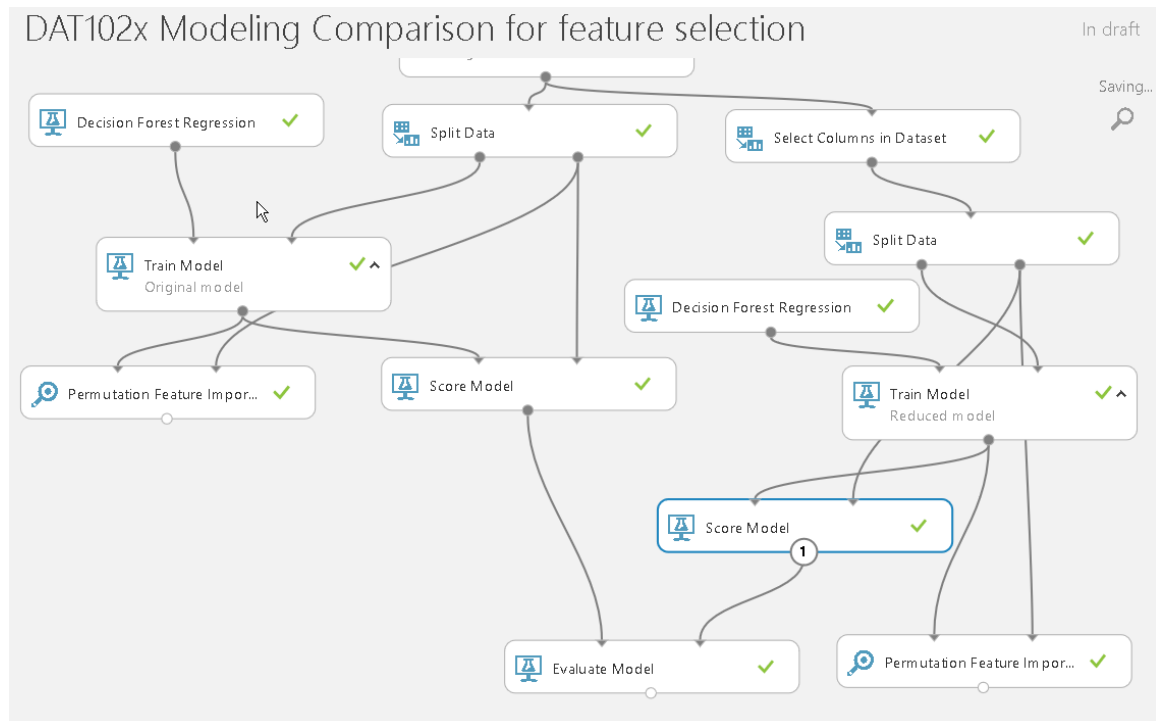
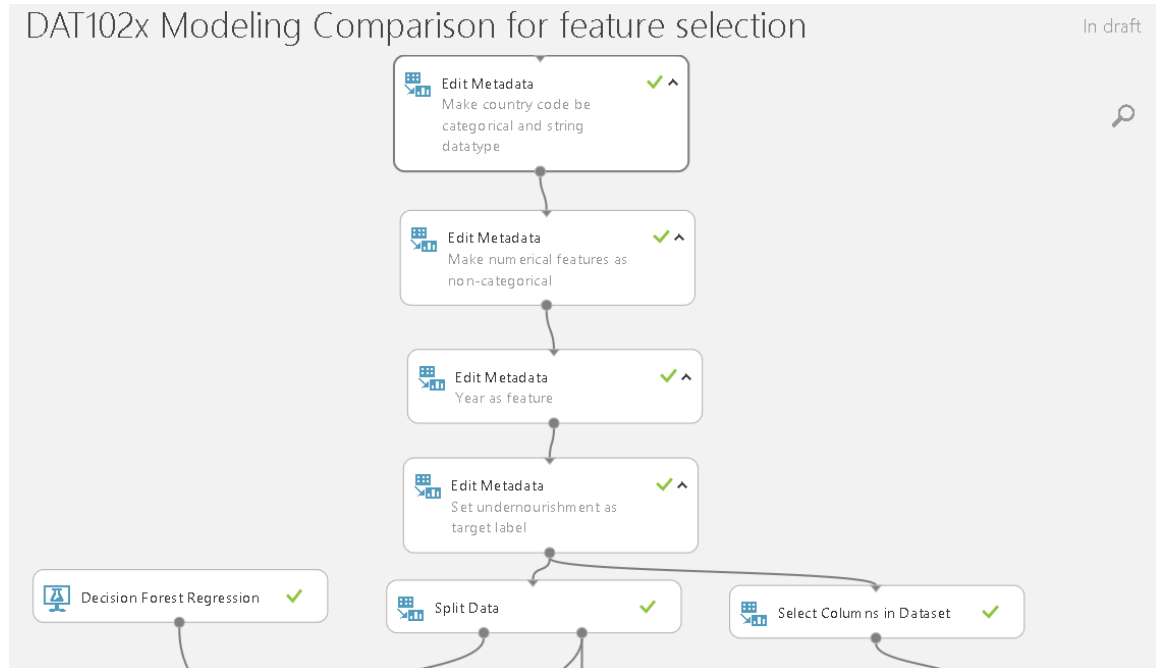
DAT102x Cross-Validate Modeling > Evaluate Model > Evaluation results

rows	columns						
2	6						
		Negative Log Likelihood	Mean Absolute Error	Root Mean Squared Error	Relative Absolute Error	Relative Squared Error	Coefficient of Determination
view as							
		2899.838857	2.212396	3.442841	0.235659	0.08796	0.91204
		Infinity	4.080628	5.67607	0.434658	0.239082	0.760918

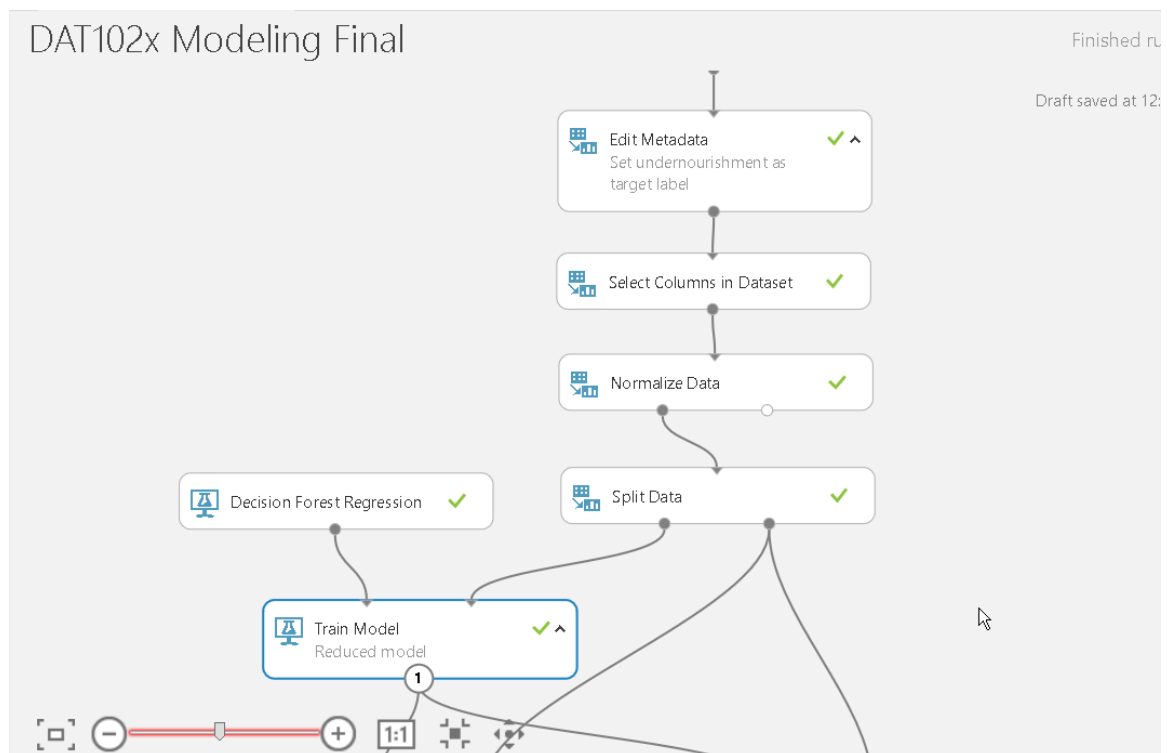
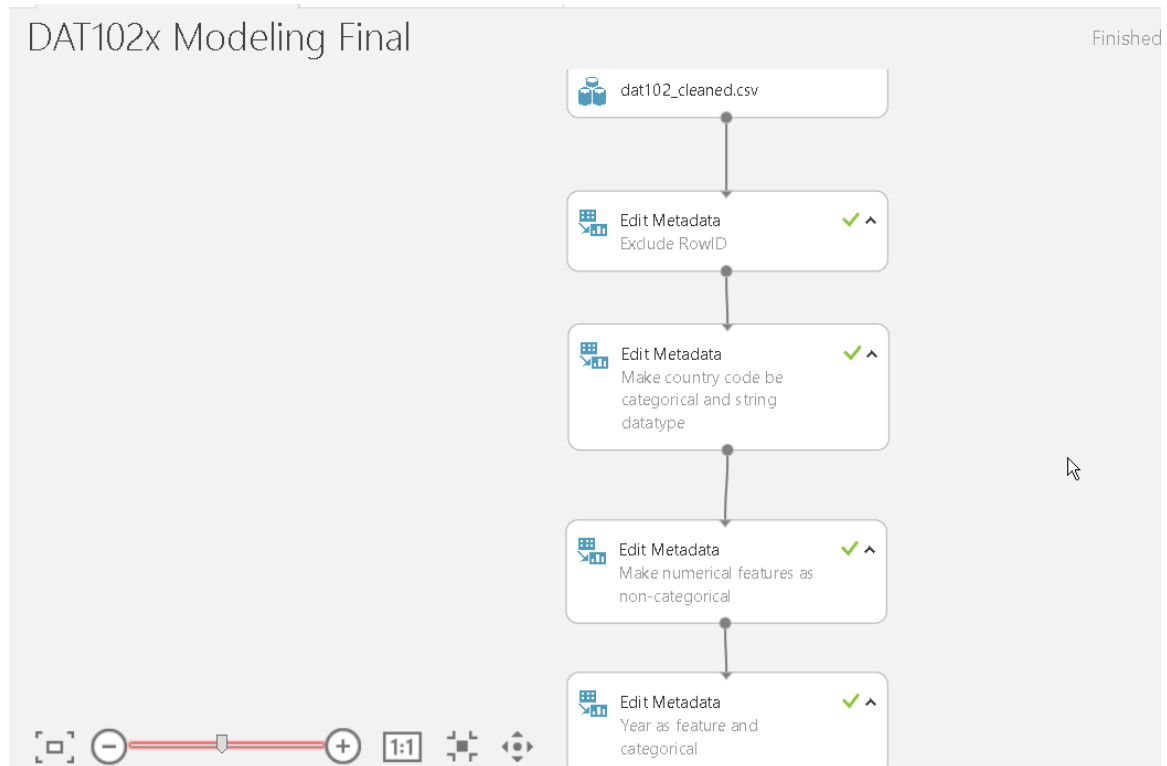
Trying out and measure each correlation for all features using each method:

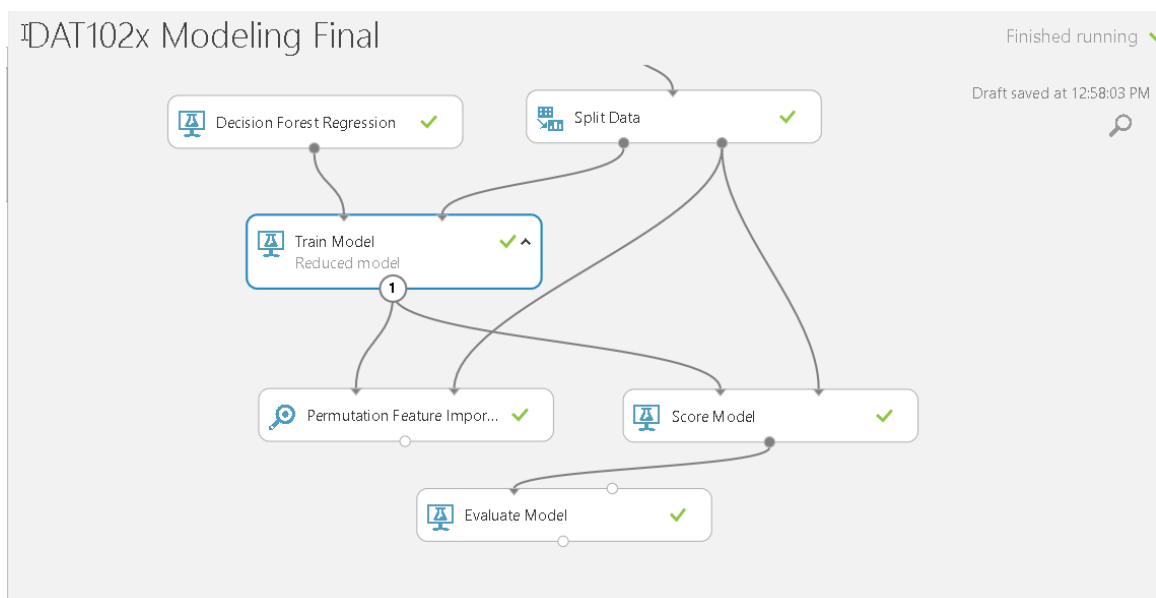


Compare models with or without feature selection



Model Training and Web Publishing





DAT102x Modeling Final > Evaluate Model > Evaluation results

	rows	columns				
	1	6				
	Negative Log Likelihood	Mean Absolute Error	Root Mean Squared Error	Relative Absolute Error	Relative Squared Error	Coefficient of Determination
view as	571.90844	1.7039	2.616738	0.18442	0.052171	0.947829

