GitHub Issue

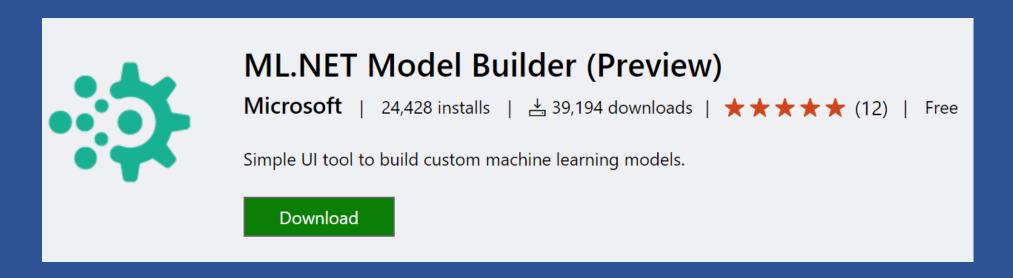
AutoML

What's in this session?

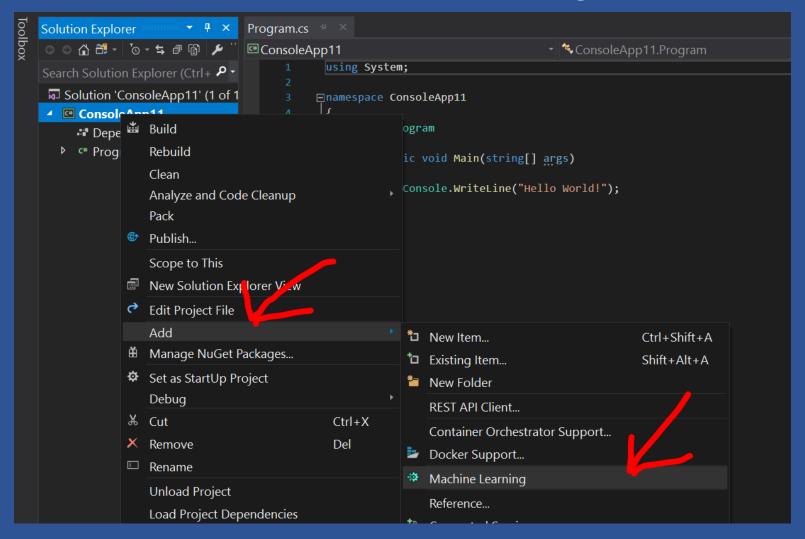
- 1. Install ML.NET Model Builder
- Create new .NET CORE console project and add Machine Learning job
- 3. Pick a Scenario / Price Prediction
- 4. Set Data File
- 5. Train 60 seconds
- 6. Understand Train result
- 7. Understand evaluation result
- 8. Generate Code
- 9. Examine Code

Install ML.NET Model Builder

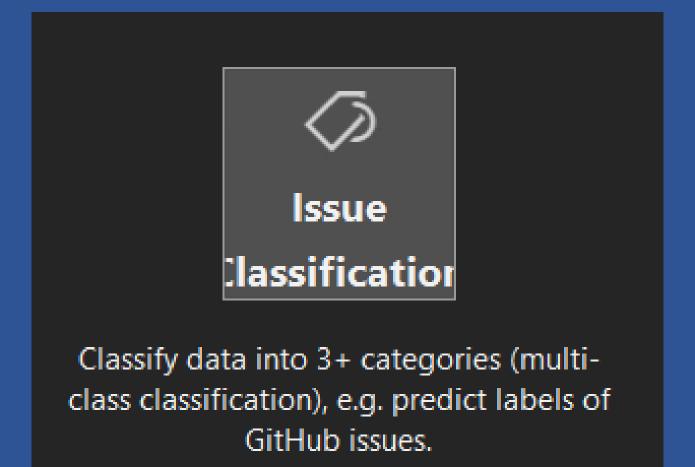
https://marketplace.visualstudio.com/items?itemName=MLNET.07



Create new .NET CORE console project and add Machine Learning

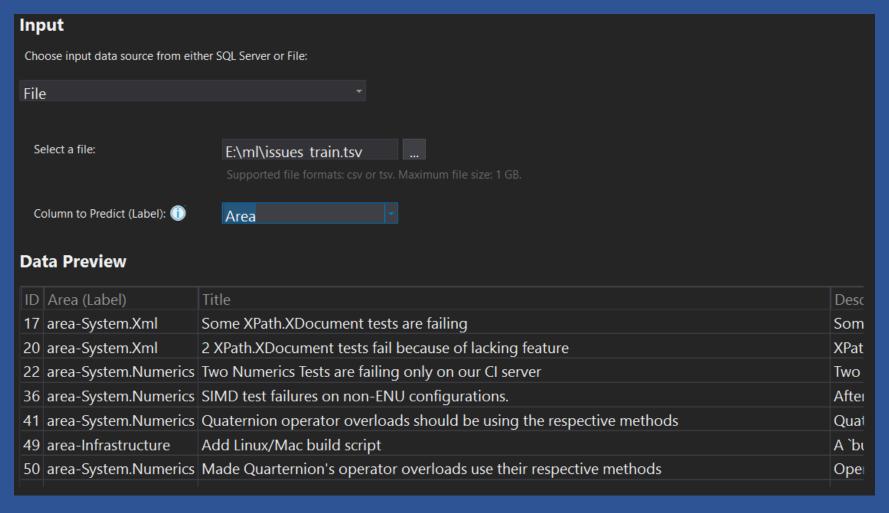


Pick a Scenario / Issue Classification

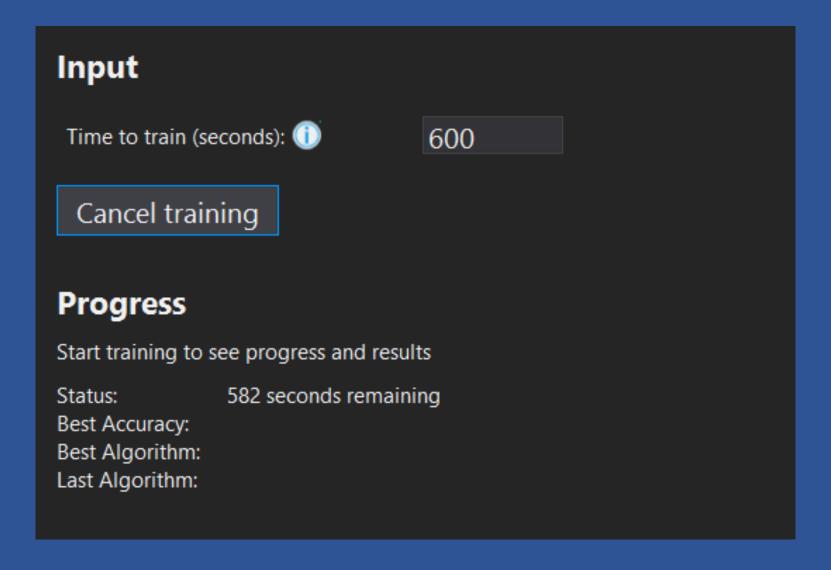


Set Data File

Data / File / issues train.tsv Label column name = Area



Train 600 seconds



Understand Train result

Progress

Start training to see progress and results

Status: Done

Best Accuracy: 85.23%

Best Algorithm: SdcaMaximumEntropyMulti

Last Algorithm: SymbolicSgdLogisticRegressionOva

Understand evaluation result

Output

ML Task: multiclass-classification

Dataset: issues_train.tsv

Column to Predict (Label): Area

Best Model: SdcaMaximumEntropyMulti

Best Model Accuracy: 85.23%

Training Time: 600.76 seconds

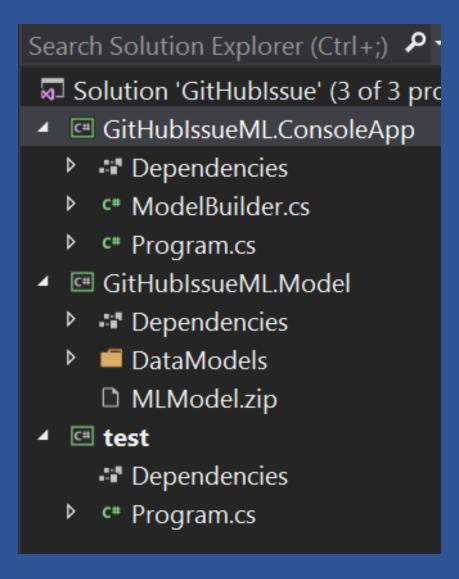
Models Explored (Total): 4

Top 4 models explored

Rank	Trainer	MicroAccuracy	MacroAccuracy	Duration
1	Sdca Maximum Entropy Multi	0.8523	0.8159	60.5
2	LightGbmMulti	0.8414	0.7893	306.7
3	Averaged Perceptron Ova	0.8327	0.7927	18.2
4	Symbolic Sgd Logistic Regression Ova	0.7784	0.7353	17.1

GreatFriends.Biz Microsoft ML.NET

Examine Code



Next Step Write Code to build, train, evaluate, and use ML model