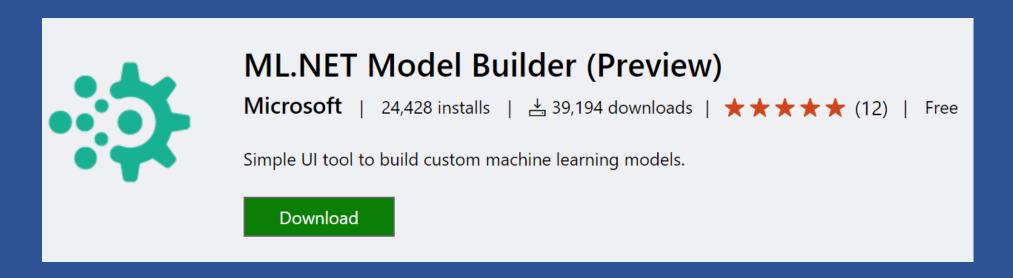
Iris AutoNL

What's in this session?

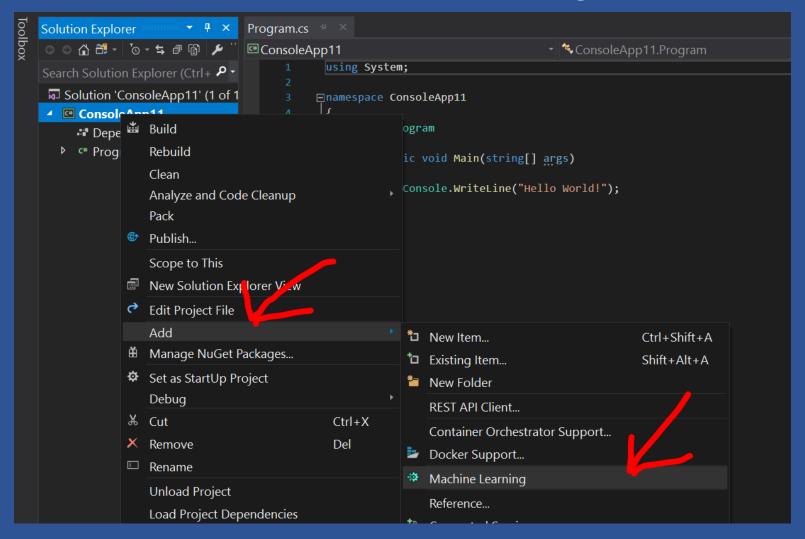
- 1. Install ML.NET Model Builder
- Create new .NET CORE console project and add Machine Learning job
- 3. Pick a Scenario / Price Prediction
- 4. Set Data File
- 5. Set train time
- 6. Understand Train result
- 7. Understand evaluation result
- 8. Generate Code
- 9. Examine Code

Install ML.NET Model Builder

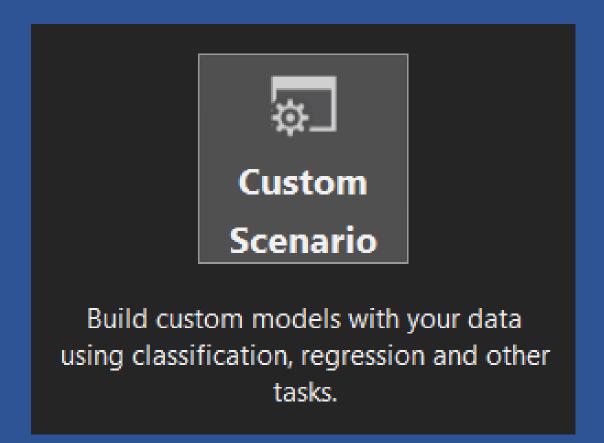
https://marketplace.visualstudio.com/items?itemName=MLNET.07



Create new .NET CORE console project and add Machine Learning

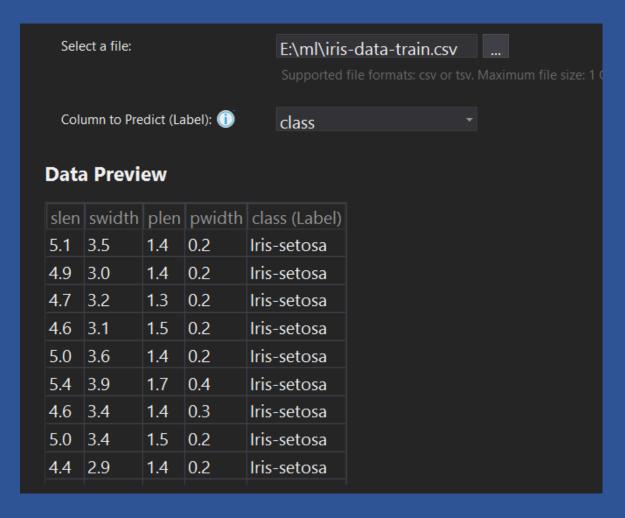


Pick a Scenario / Custom Scenario



Set Data File

Data / File /iris-data-train.csv Label column name = class



Task = multiclass-classification Time = 100 seconds

Input			
Machine learning task: (i)	multiclass-classification *		
Time to train (seconds): 🕕	100		
Start training			

Understand the Train result

Progress

Start training to see progress and results

Status: Done

Best Accuracy: 88.89%

Best Algorithm: AveragedPerceptronOva

Last Algorithm: FastForestOva

Understand evaluation result

Output

ML Task: multiclass-classification

Dataset: iris-data-train.csv

Column to Predict (Label): class

Best Model: AveragedPerceptronOva

Best Model Accuracy: 88.89%

Training Time: 100.31 seconds

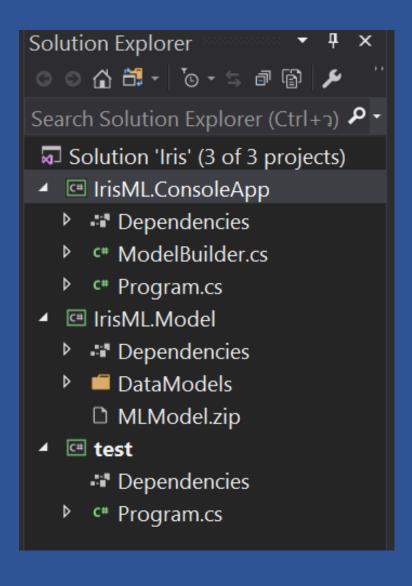
Models Explored (Total): 234

Top 5 models explored

Rank	Trainer	MicroAccuracy	MacroAccuracy	Duration
1	Averaged Perceptron Ova	0.8889	0.9000	0.7
2	SdcaMaximumEntropyMulti	0.8889	0.9000	0.2
3	LightGbmMulti	0.8889	0.9000	0.2
4	FastTreeOva	0.8889	0.9000	0.3
5	LinearSvmOva	0.8889	0.9000	0.1

GreatFriends.Biz

Examine Code



Next Step

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