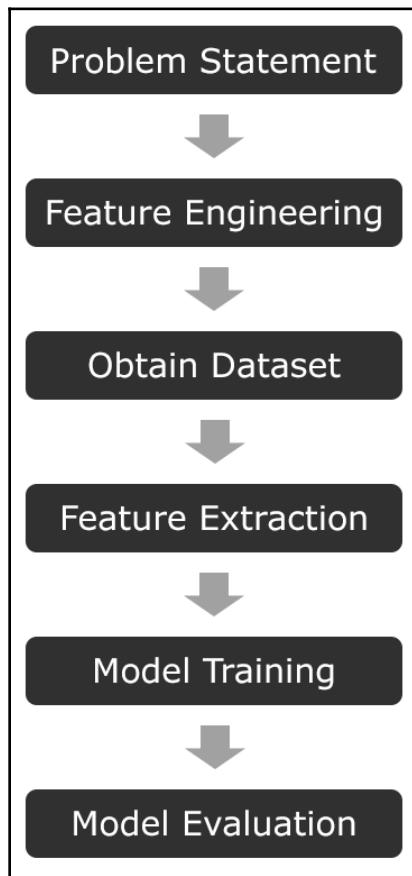
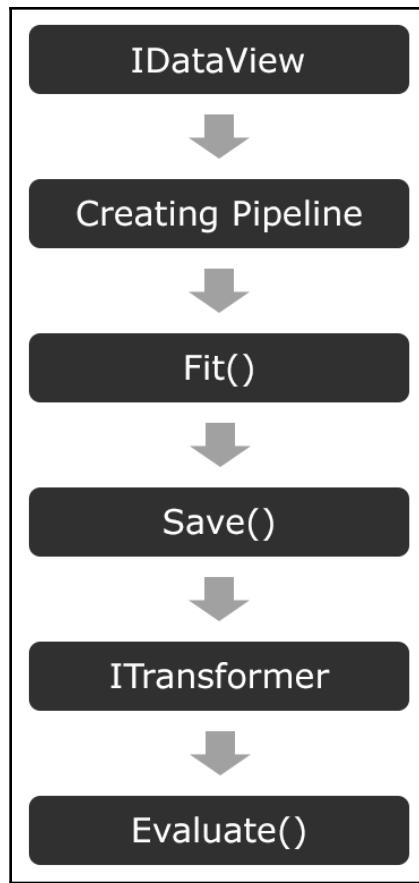
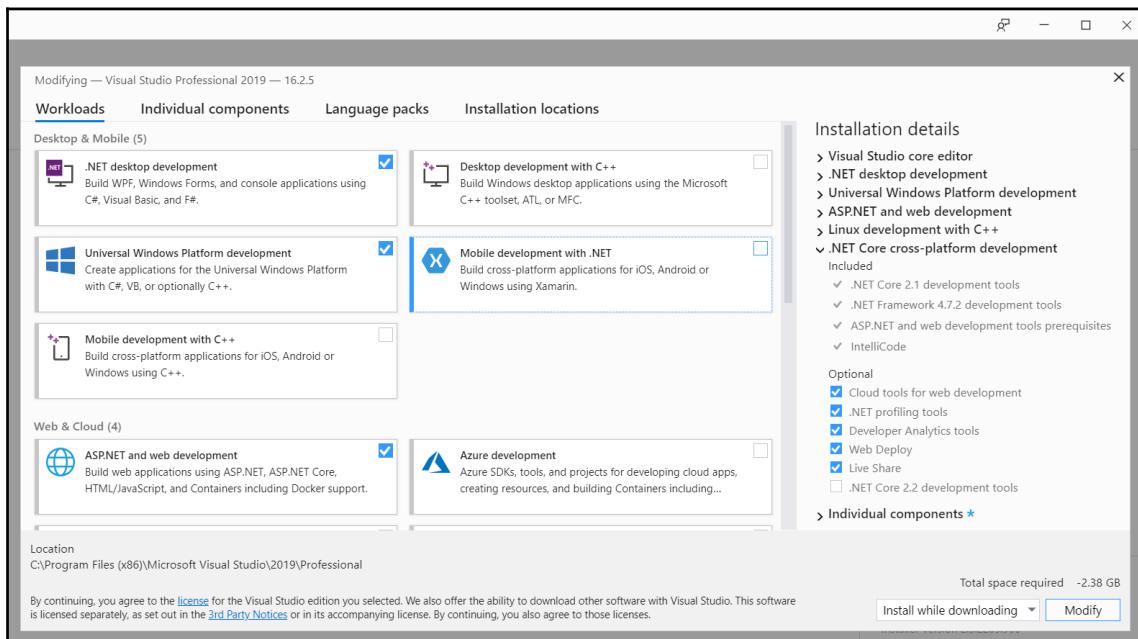


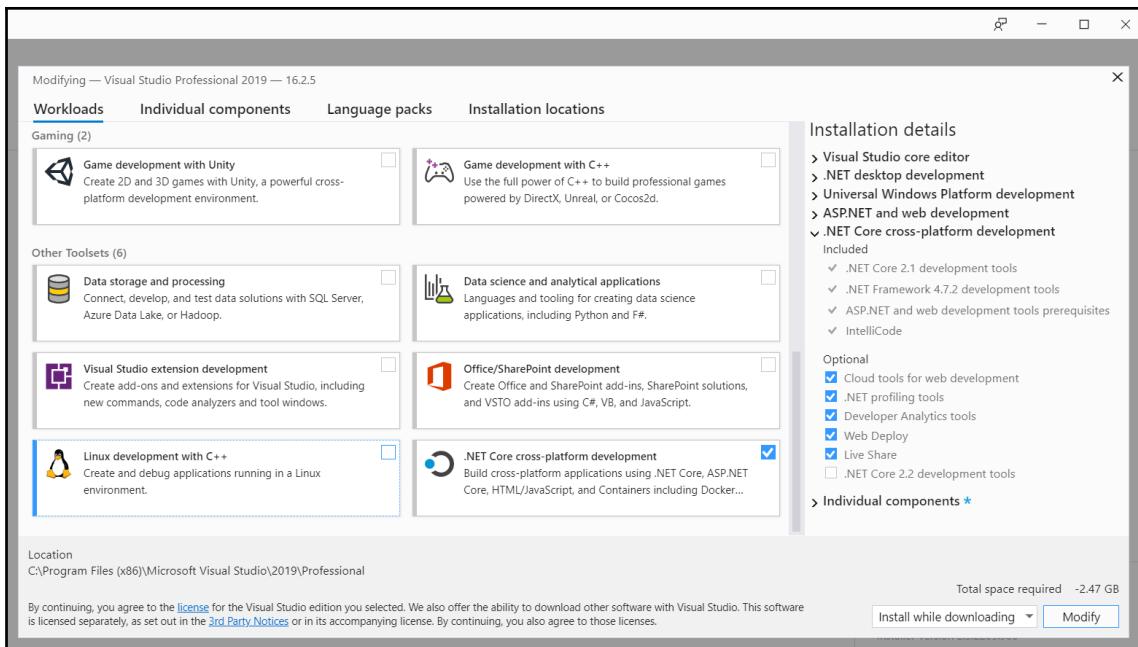
Chapter 1: Getting Started with Machine Learning and ML.NET

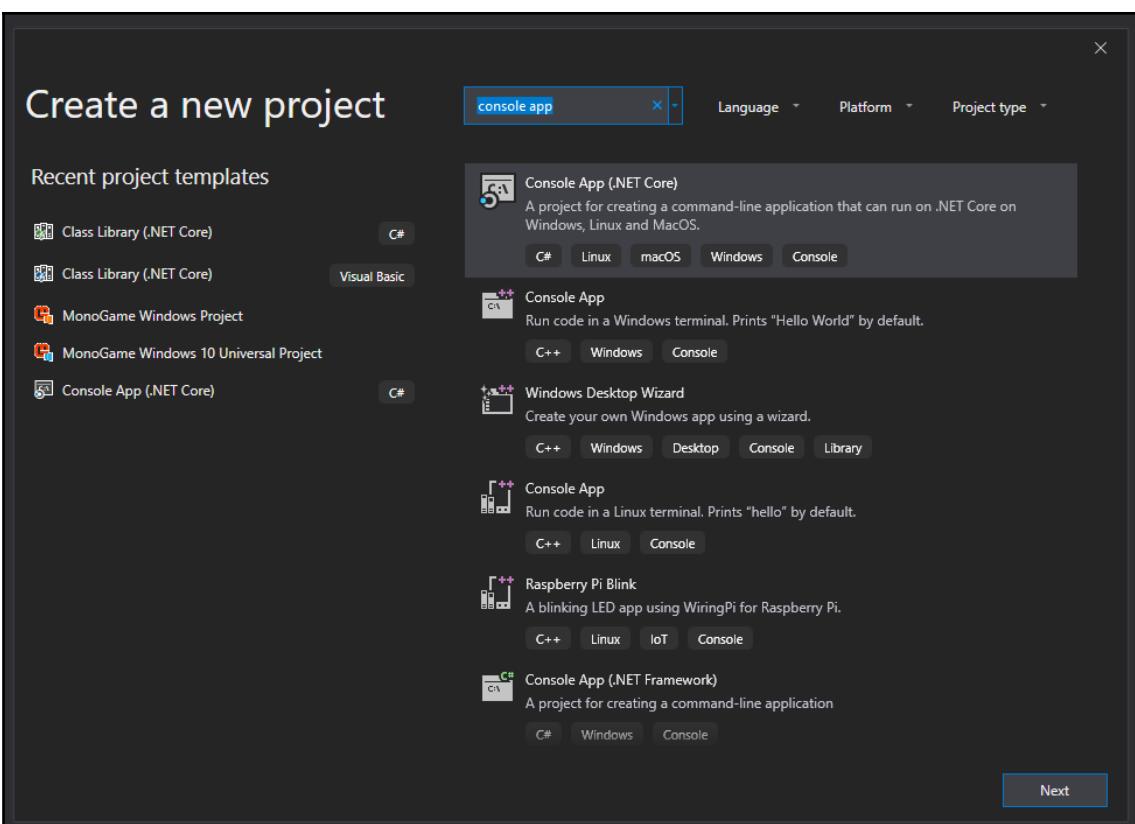




Chapter 2: Setting Up the ML.NET Environment







X

Configure your new project

Console App (.NET Core)

C#

Linux

macOS

Windows

Console

Project name

Chapter02

Location

C:\Users\jcape\source\repos



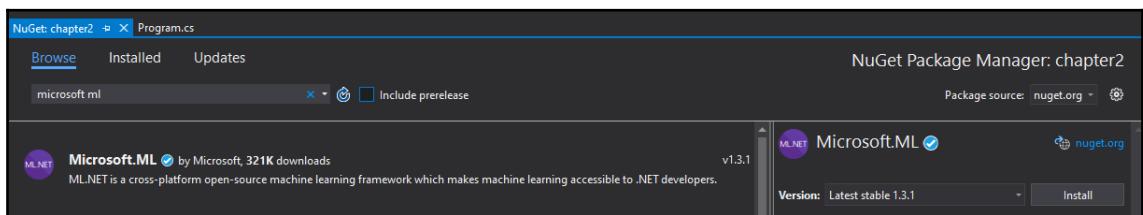
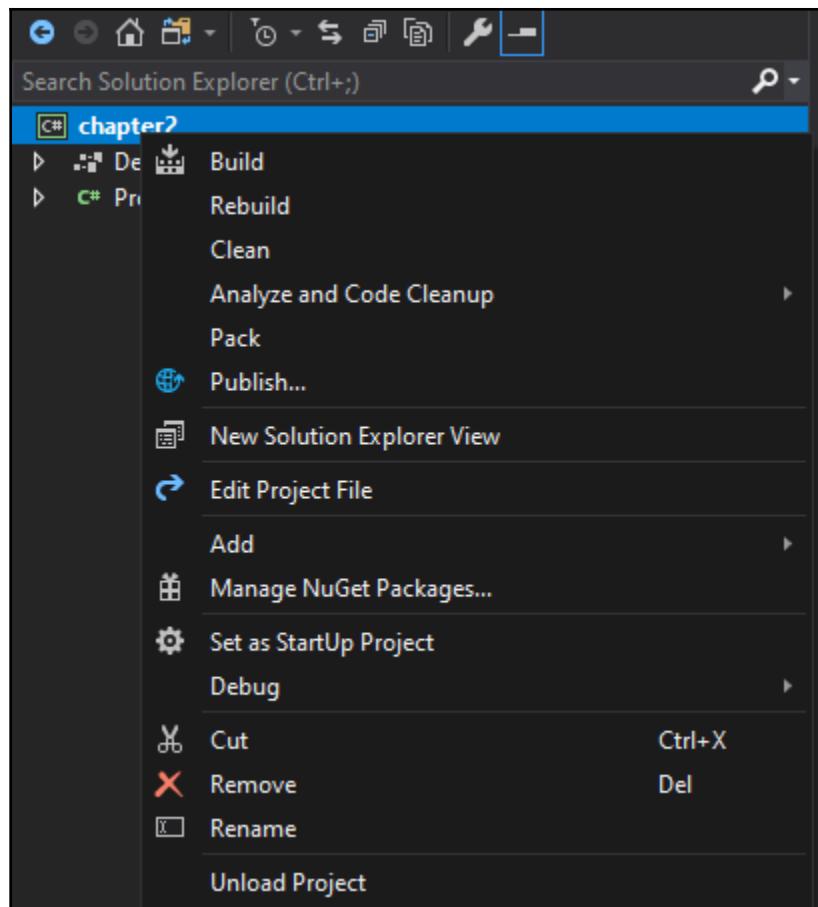
Solution name i

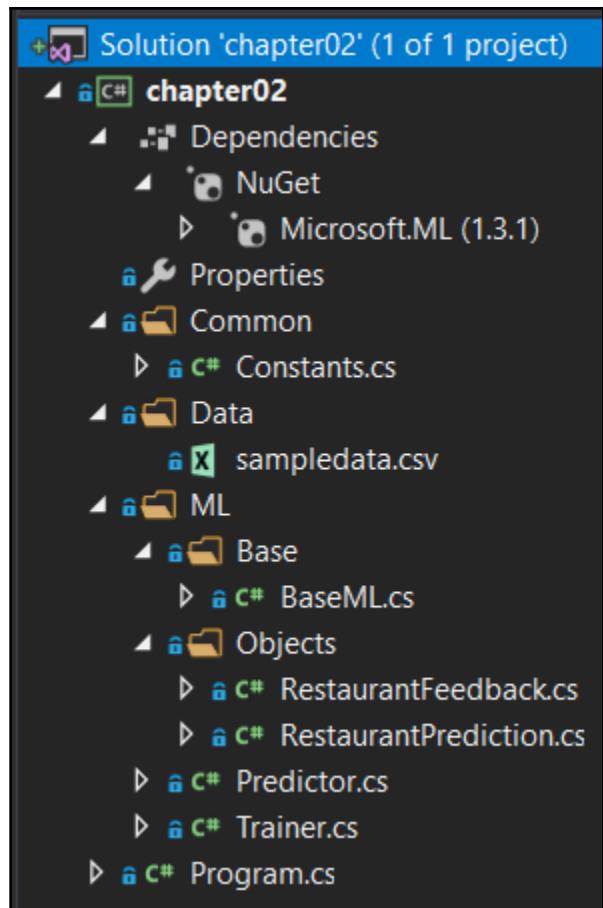
Chapter02

Place solution and project in the same directory

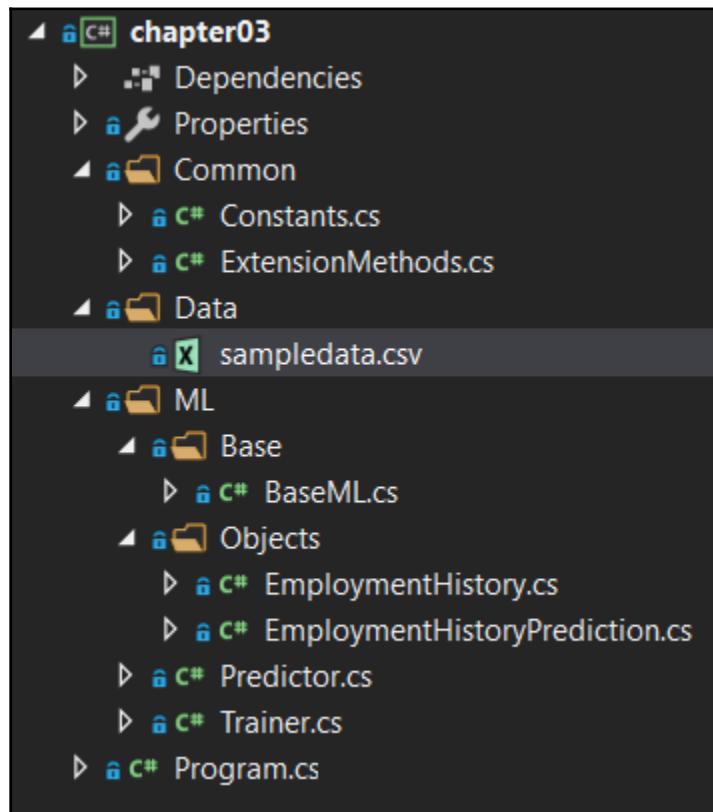
Back

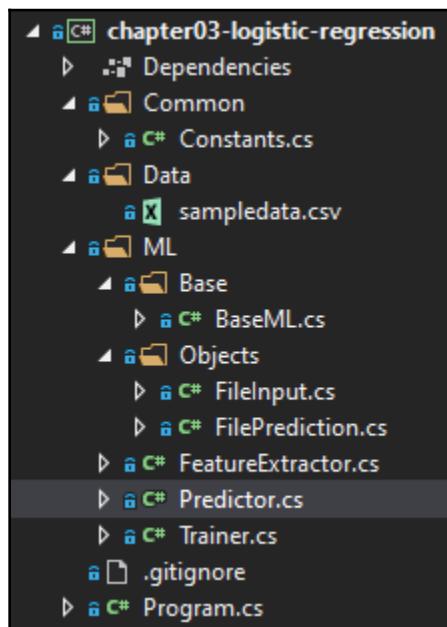
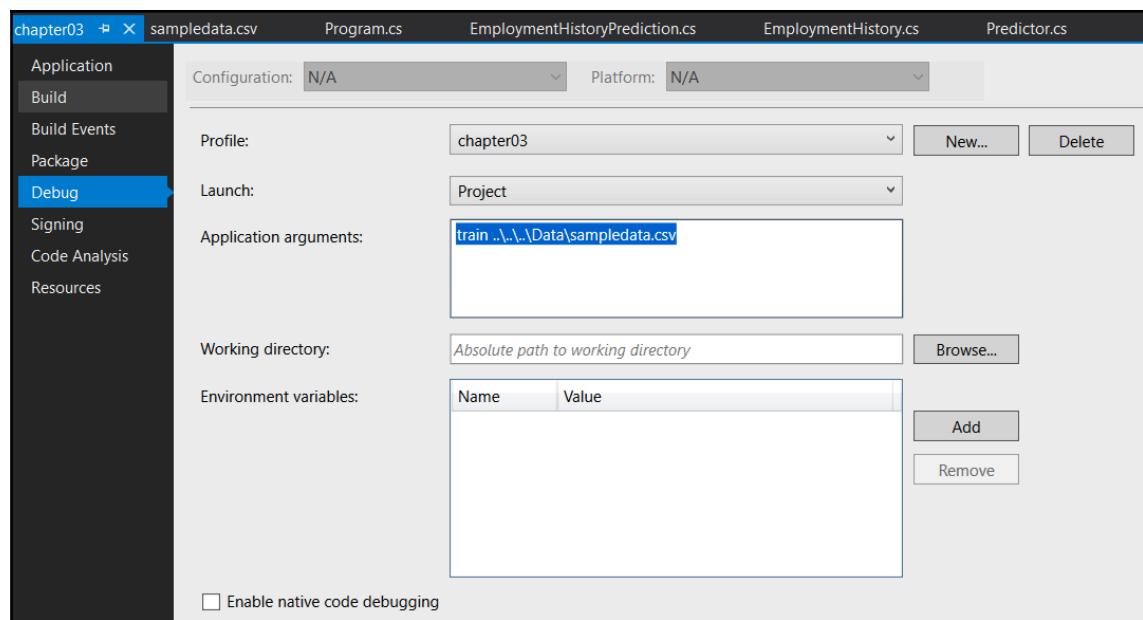
Create

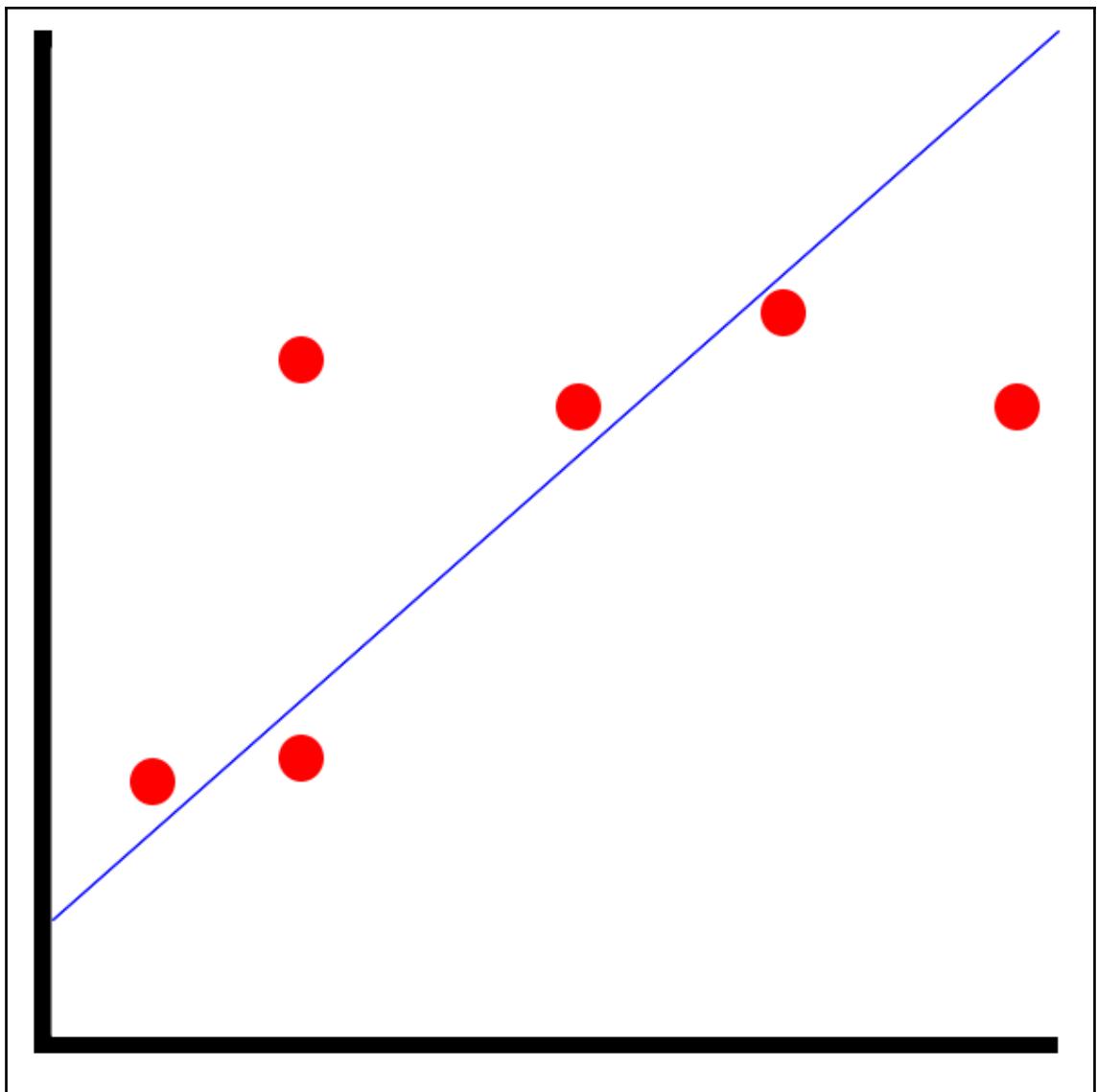


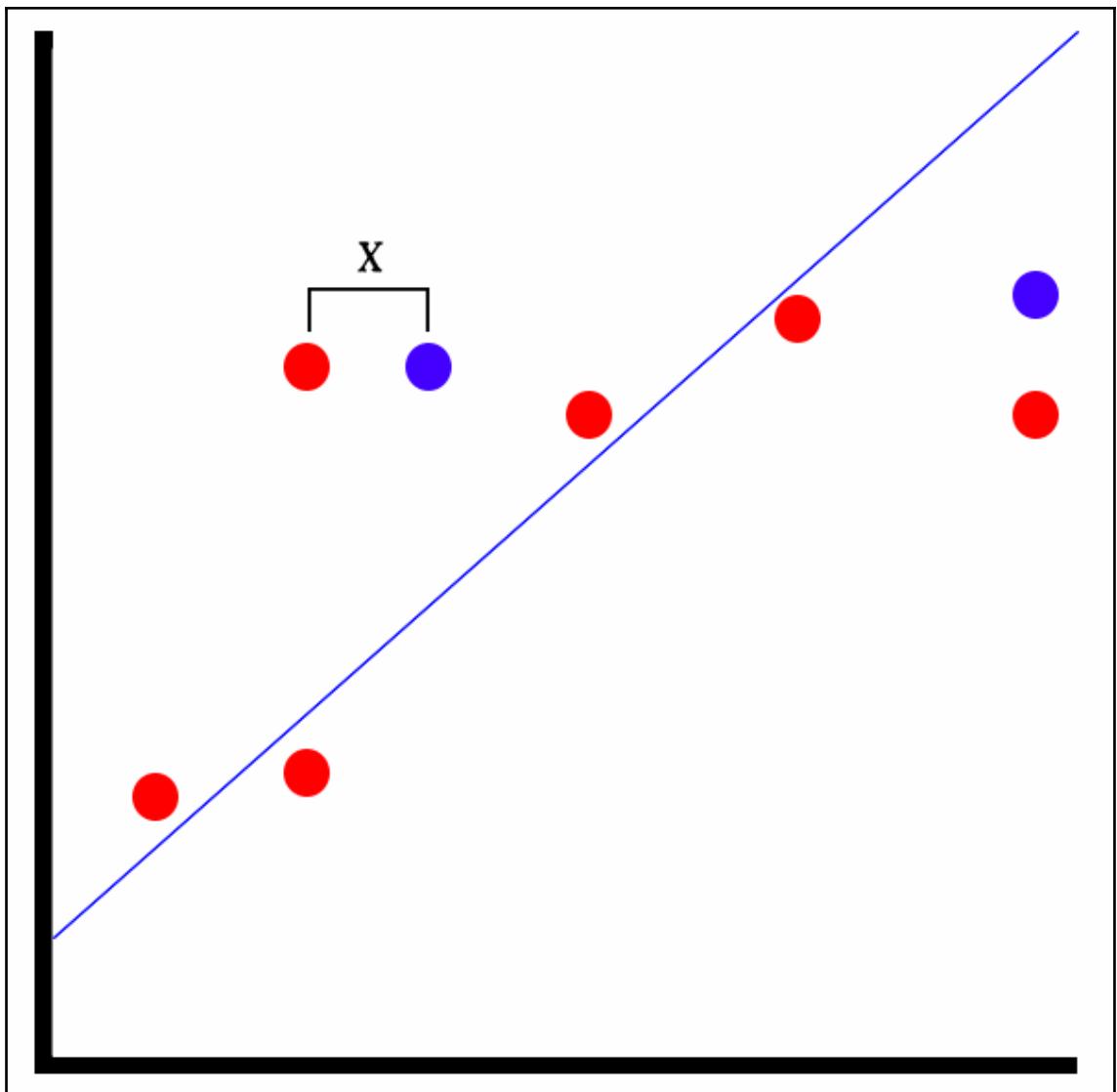


Chapter 3: Regression Model

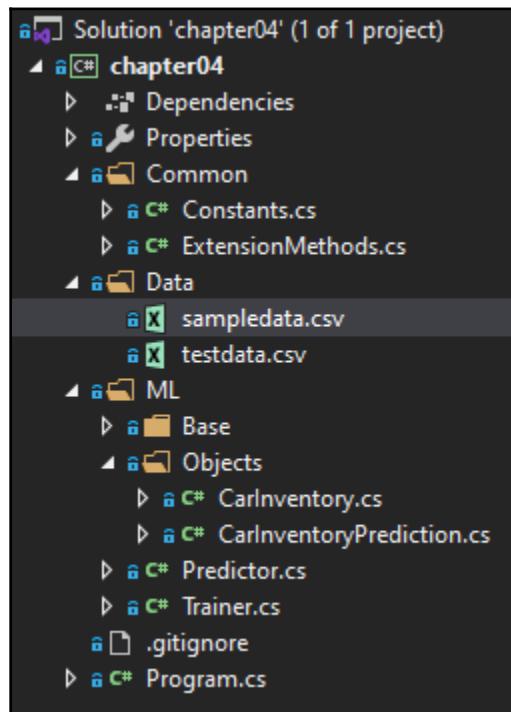


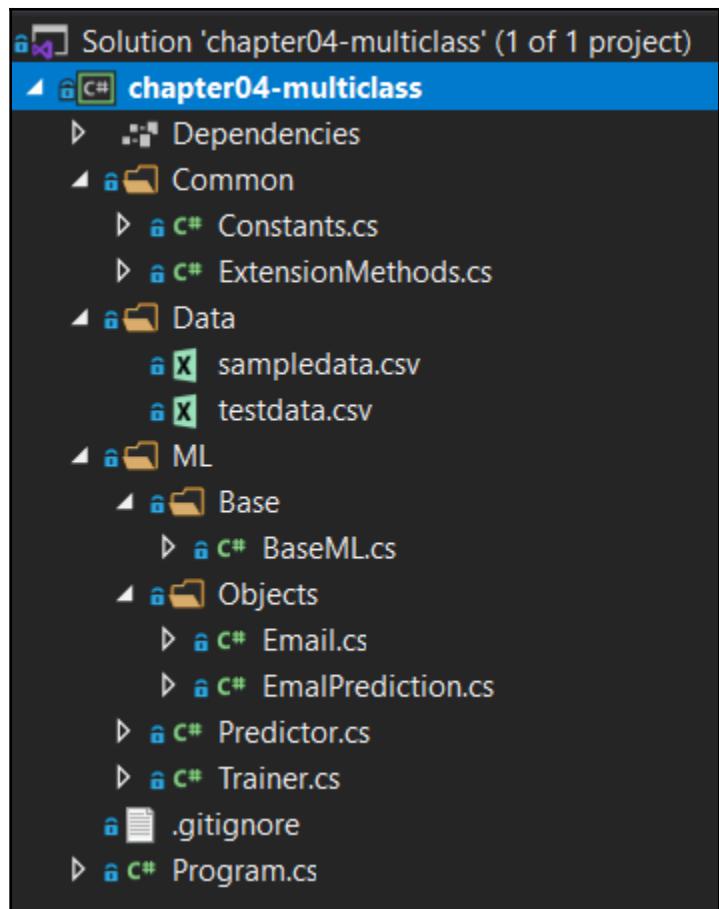




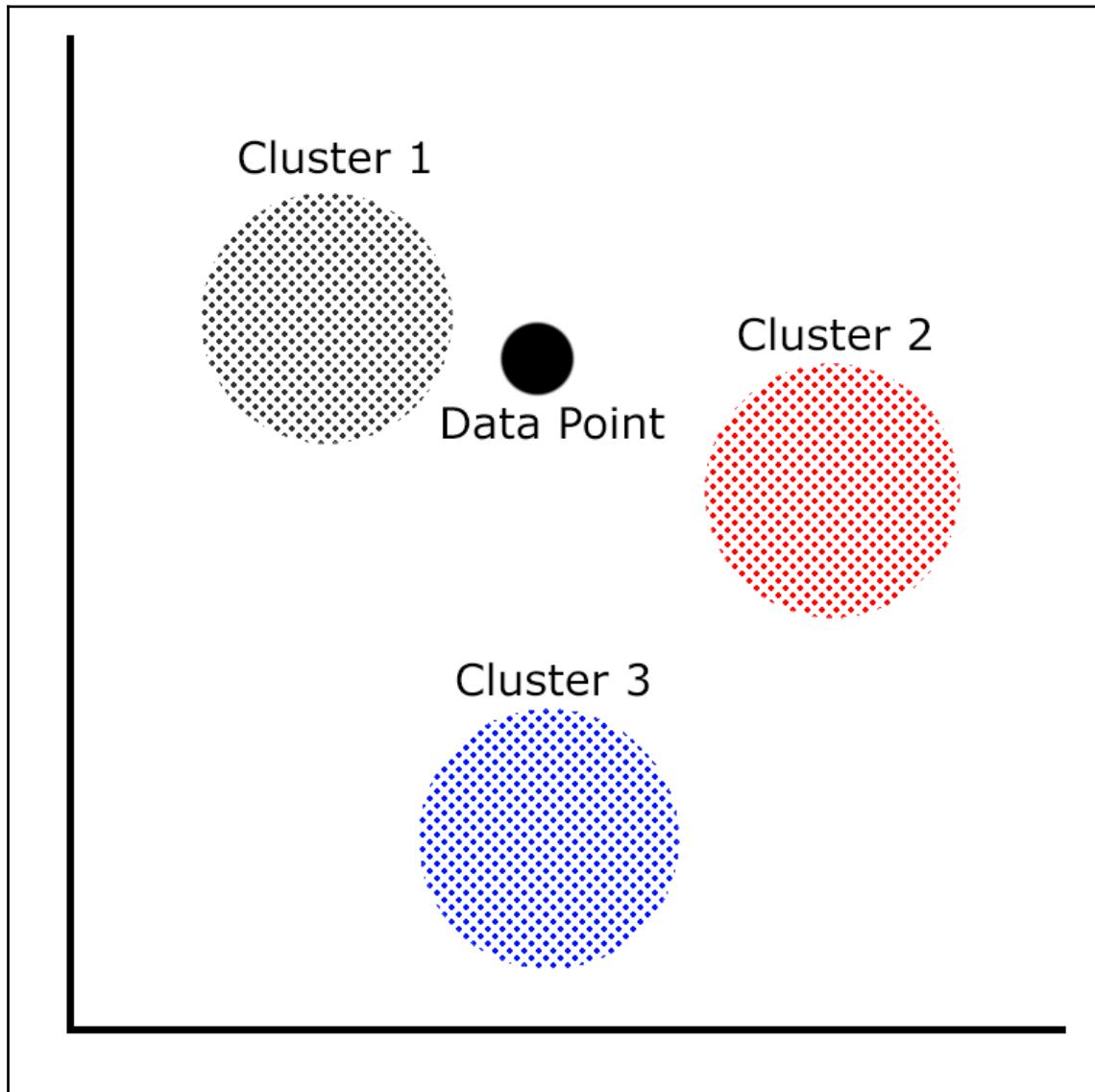


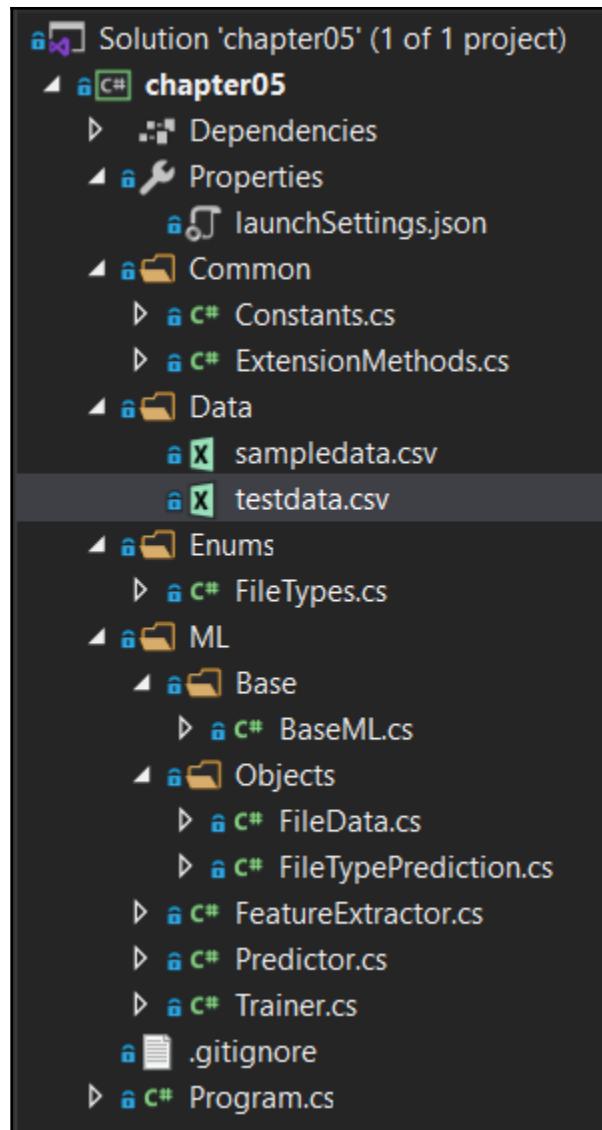
Chapter 4: Classification Model



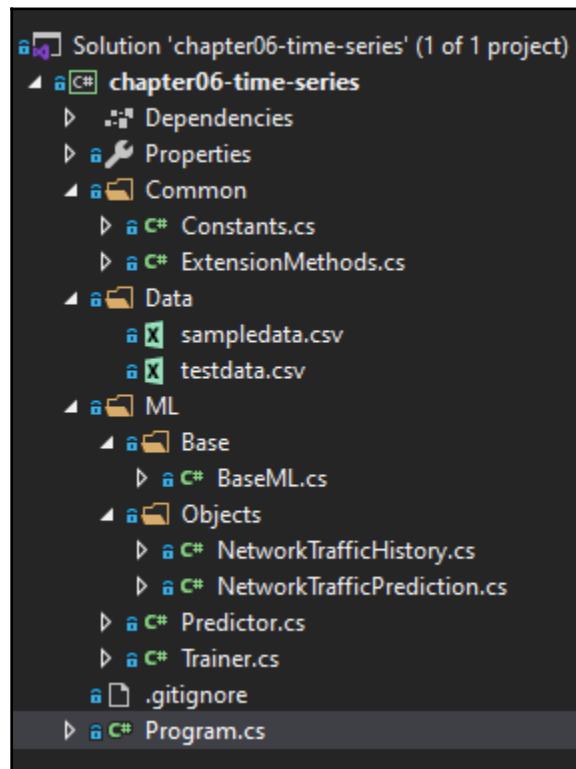


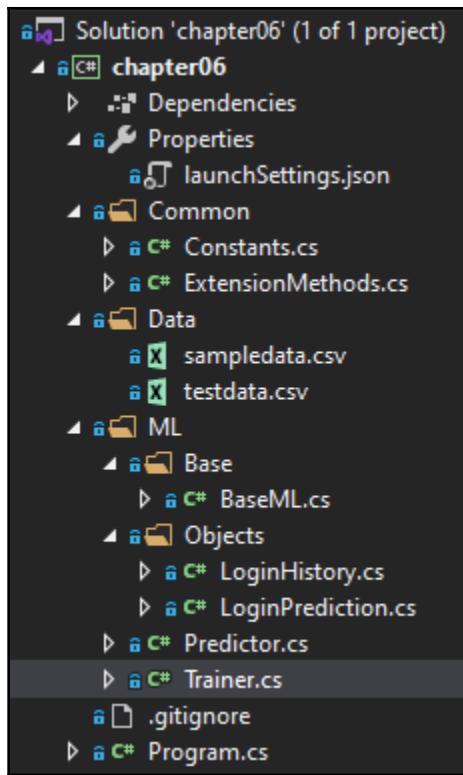
Chapter 5: Clustering Model

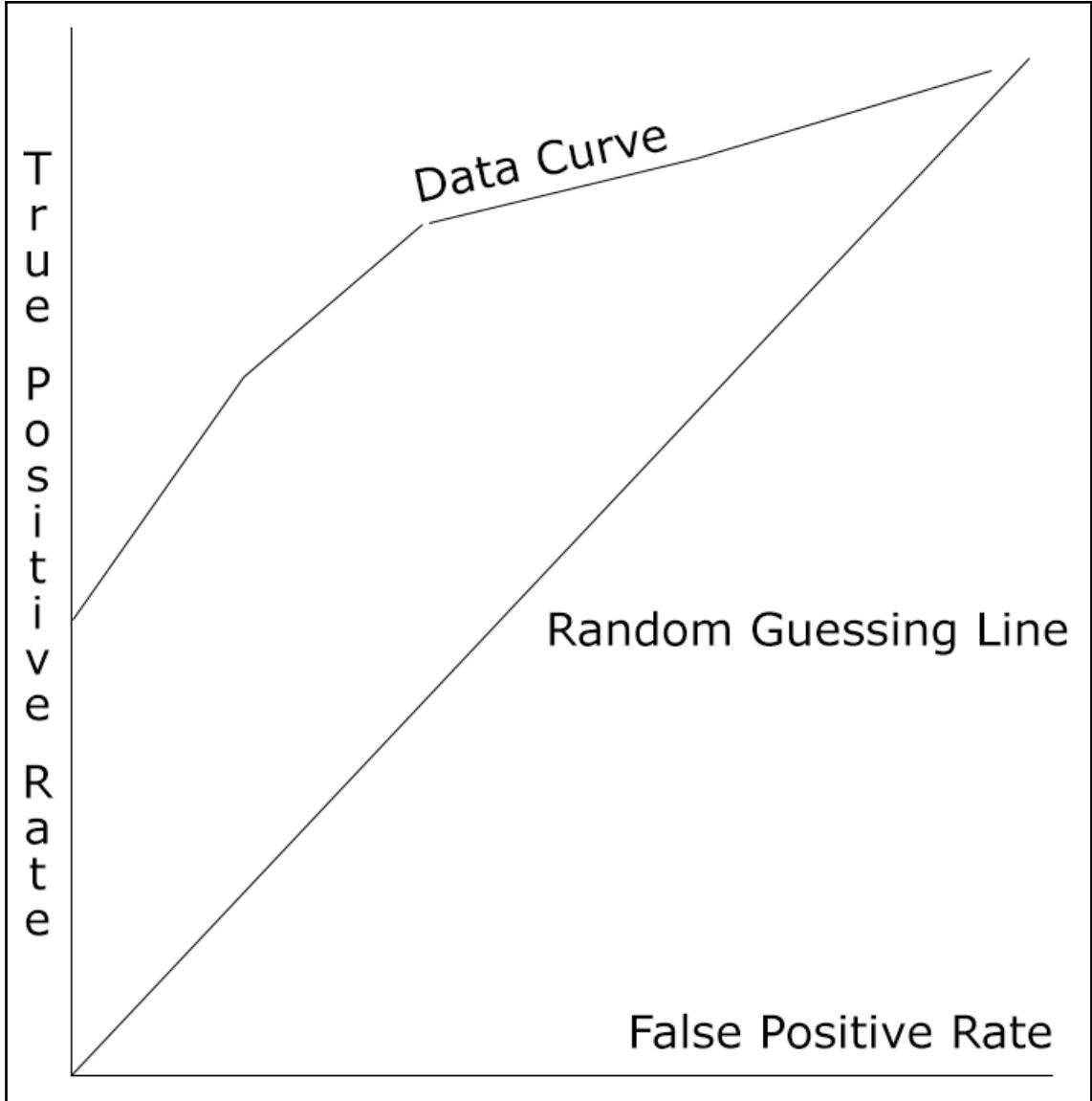




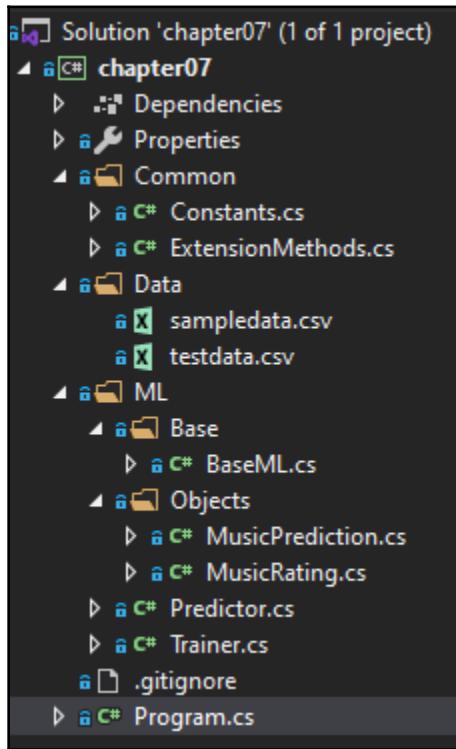
Chapter 6: Anomaly Detection Model

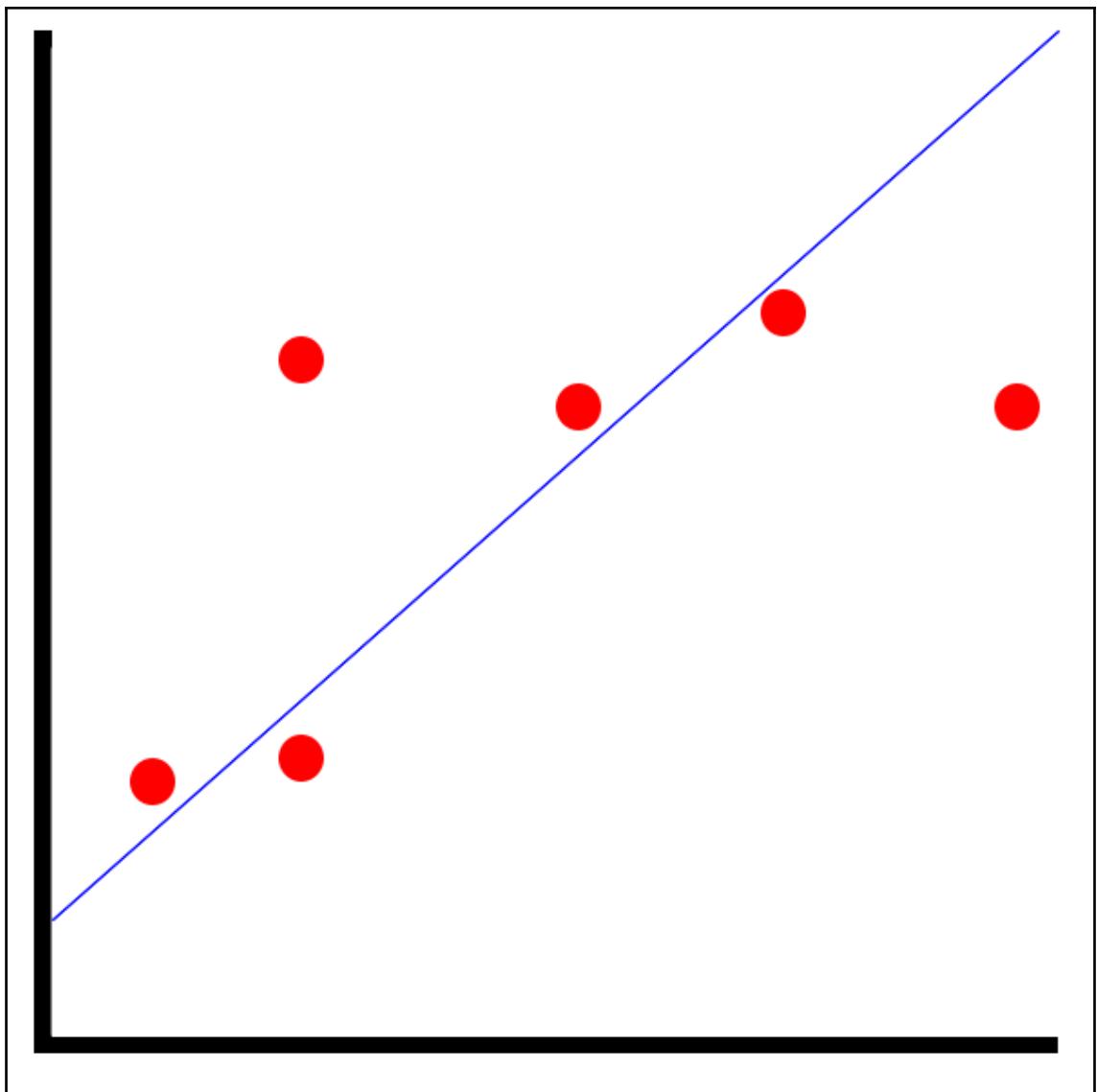


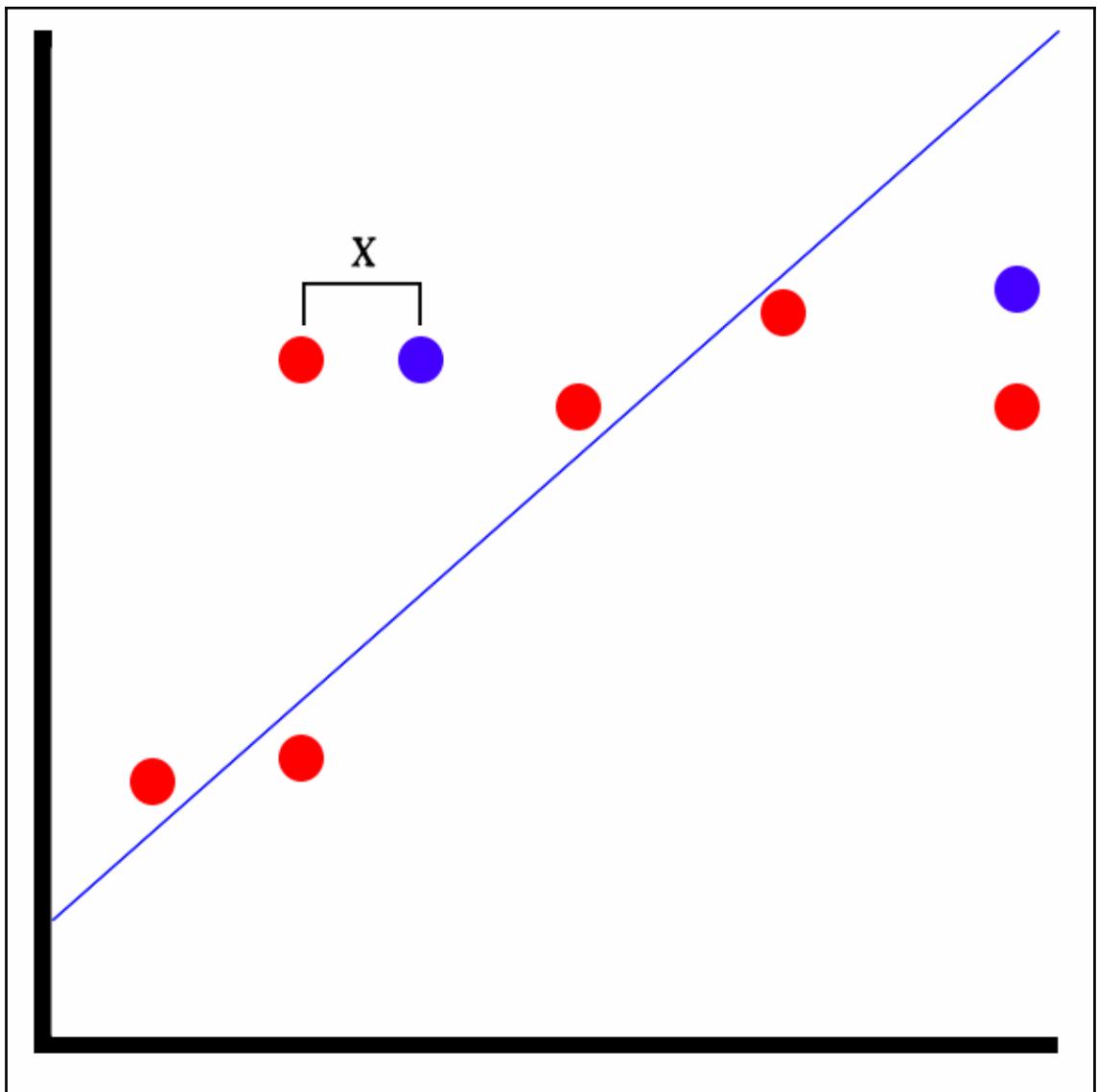




Chapter 7: Matrix Factorization Model







Chapter 8: Using ML.NET with .NET Core and Forecasting

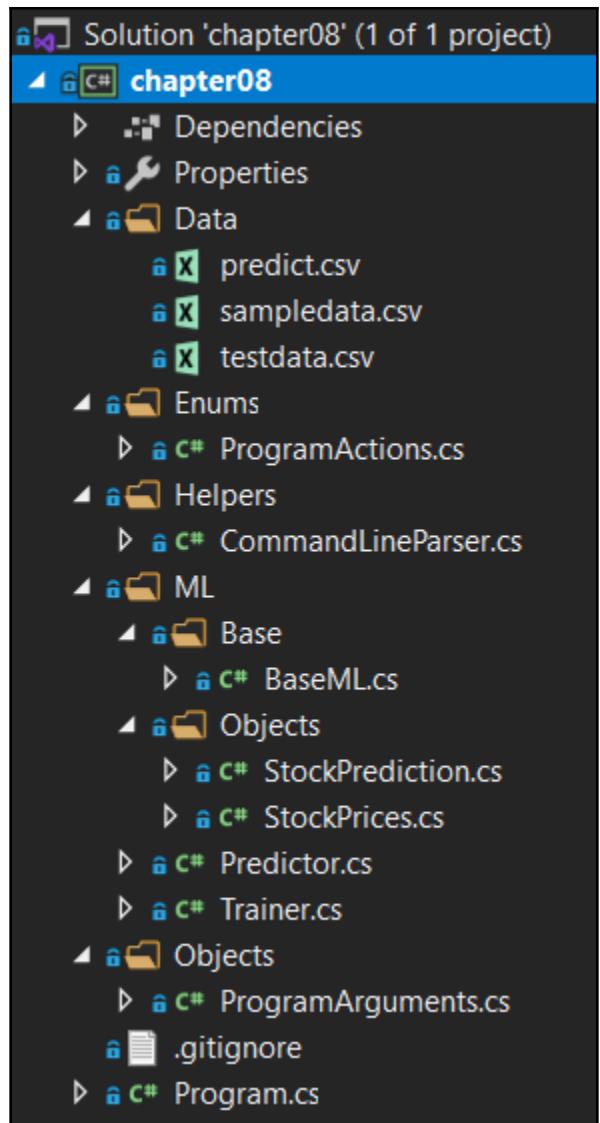
.NET CORE 3.x

ASP.NET CORE

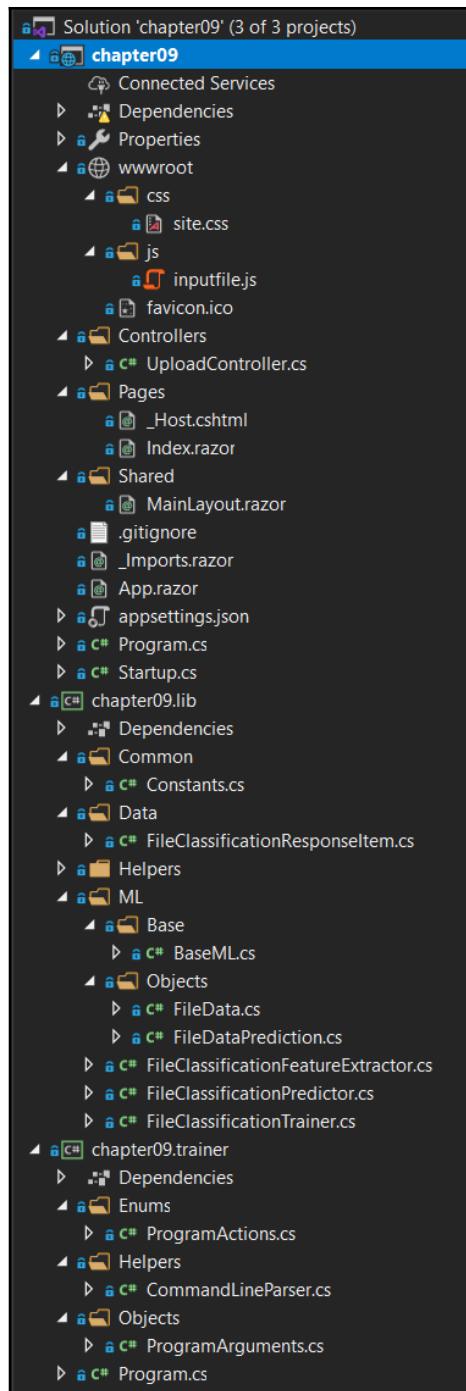
EF CORE

WinForms & WPF

ML.NET



Chapter 9: Using ML.NET with ASP.NET Core



Chapter 9 - ML.NET with Blazor and ASP.NET Core

Click on **Choose File** below to upload and get the file's classification

No file chosen

Chapter 9 - ML.NET with Blazor and ASP.NET Core

Click on **Choose File** below to upload and get the file's classification

chapter09.dll

File Prediction Results:

SHA1 Hash

fGMEbiGMHlIle5CxV+KeN5Nu68nM=

Is Malicious?

False

Confidence

0.0%

Chapter 10: Using ML.NET with UWP

The screenshot shows the Windows App Settings page with the 'Capabilities' tab selected. The page has a dark background with light-colored text and buttons. At the top, there are tabs: Application, Visual Assets, Capabilities (which is underlined), Declarations, Content URLs, and Packaging. Below the tabs, a message says: 'Use this page to specify system features or devices that your app can use.' On the left, there's a list of capabilities with checkboxes. The 'AllJoyn' checkbox is selected and highlighted with a blue background. Other checkboxes include: Appointments, Background Media Playback, Blocked Chat Messages, Bluetooth, Chat Message Access, Code Generation, Contacts, Enterprise Authentication, Gaze Input, Graphics Capture, Internet (Client & Server), and Internet (Client). The 'Internet (Client)' checkbox is checked. To the right of the checkboxes, there's a 'Description:' section for 'AllJoyn' which states: 'Allows AllJoyn-enabled apps and devices on a network to discover and interact with each other. All apps that access APIs in the Windows.Devices.AllJoyn namespace must use this capability.' Below this description is a 'More information' link.

Application Visual Assets Capabilities Declarations Content URLs Packaging

Use this page to specify system features or devices that your app can use.

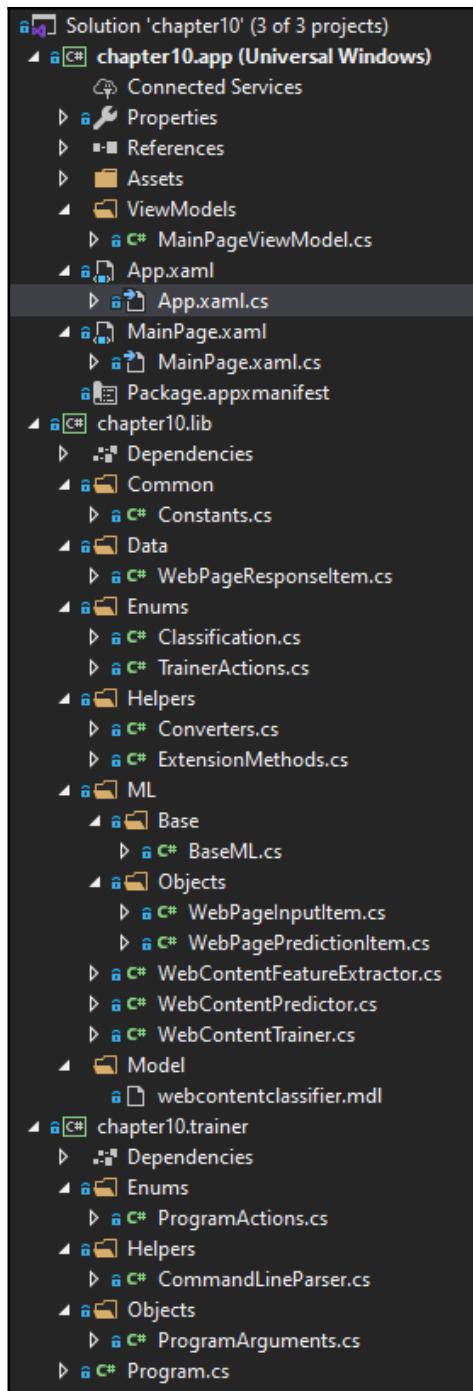
Capabilities:

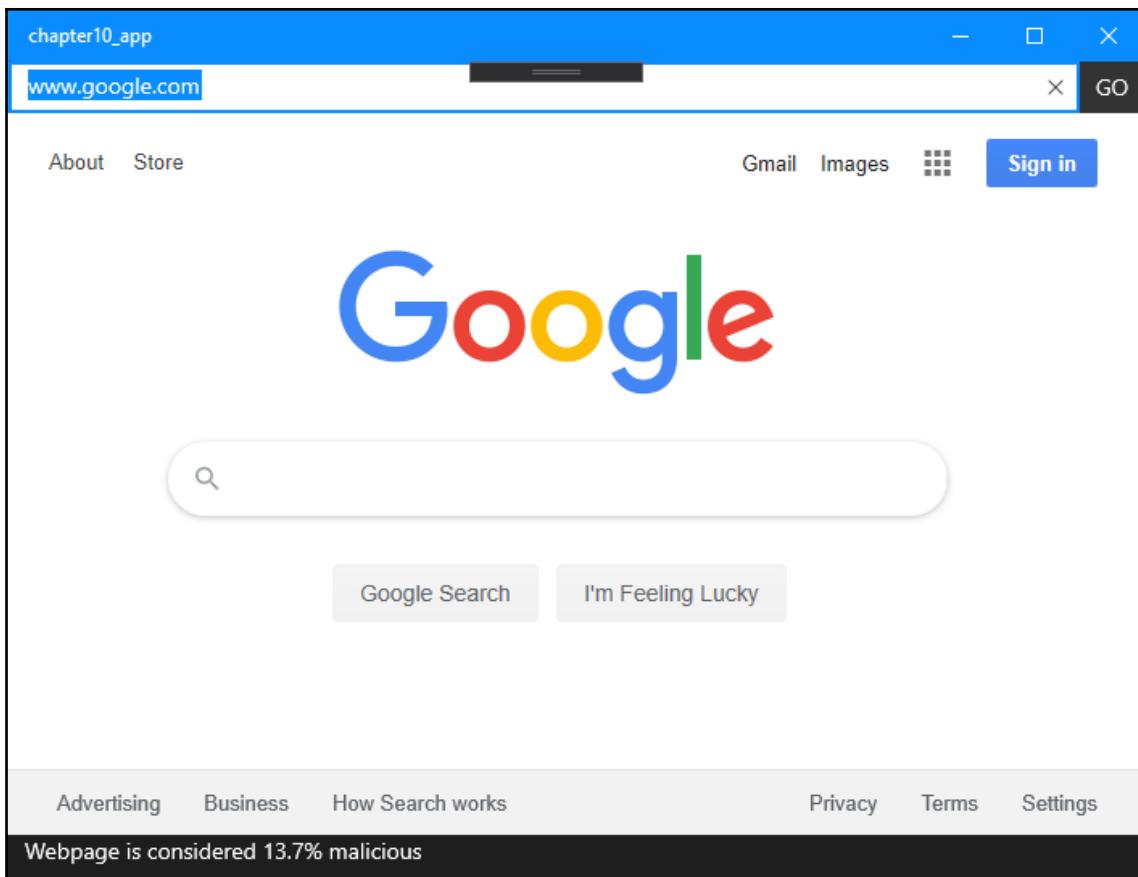
- AllJoyn
- Appointments
- Background Media Playback
- Blocked Chat Messages
- Bluetooth
- Chat Message Access
- Code Generation
- Contacts
- Enterprise Authentication
- Gaze Input
- Graphics Capture
- Internet (Client & Server)
- Internet (Client)

Description:

Allows AllJoyn-enabled apps and devices on a network to discover and interact with each other. All apps that access APIs in the Windows.Devices.AllJoyn namespace must use this capability.

[More information](#)

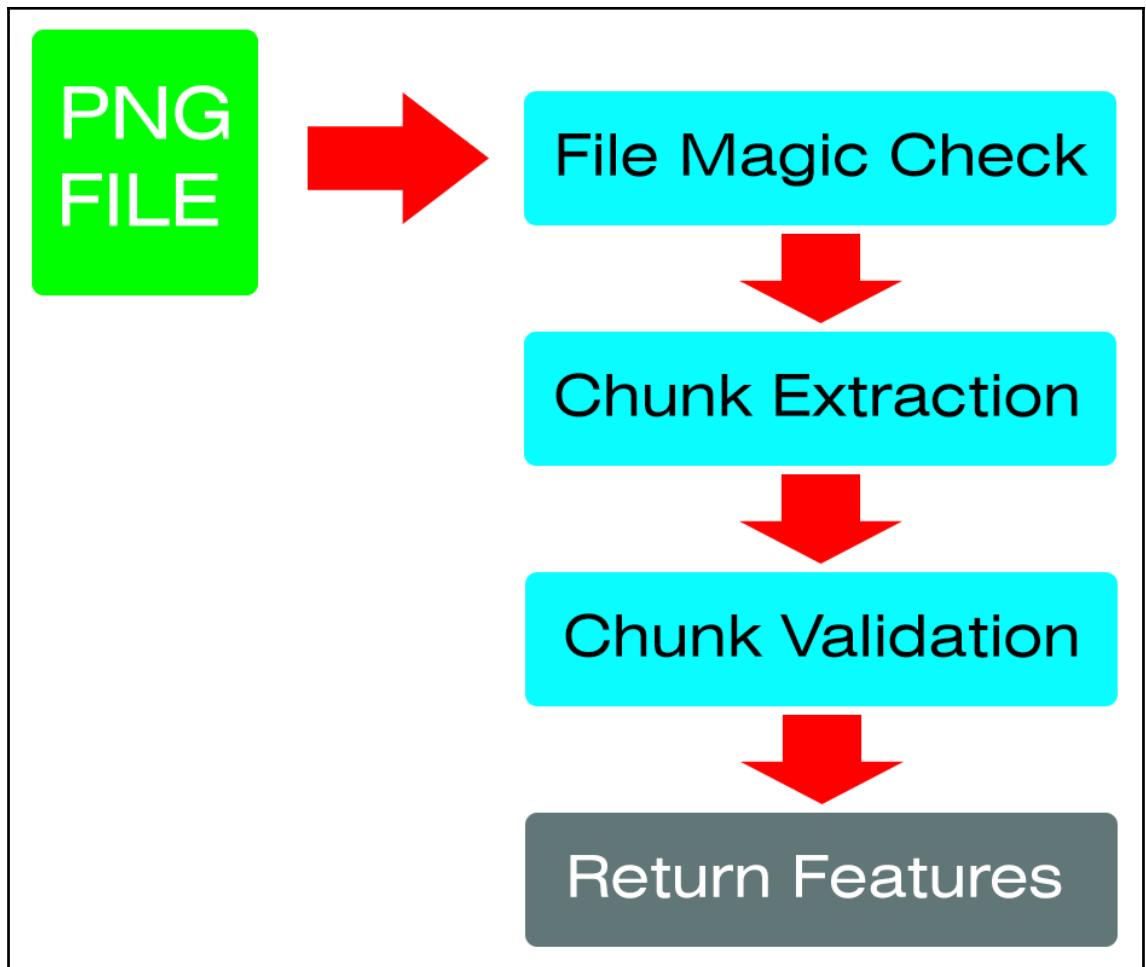






Chapter 11: Training and Building Production Models





1. Prepare Data

2. Train Model

3. Validate Model

4. Deploy Model

Home

Author

- Automated ML
- Designer
- Notebooks

Assets

- Datasets
- Experiments
- Models
- Endpoints

Manage

- Compute
- Datastores
- Notebook VMs

Welcome!

Create new ▾

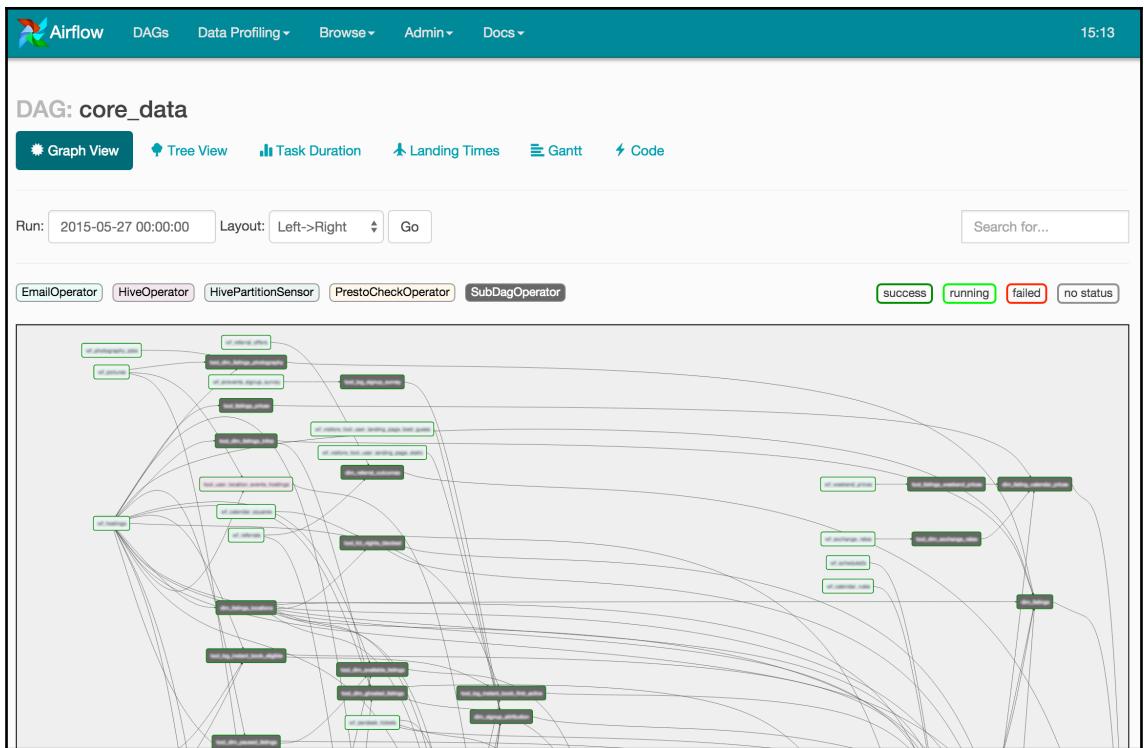
Automated ML
Automatically train and tune a model using a target metric.

Designer
Drag-n-drop interface from prepping data to deploying models.

Notebooks
Code with Python SDK and run sample experiments.

My recent resources

Run Number	Experiment	Status Updated Time	Status
1	Sample_1_-_Regression...	9/27/2019, 1:38:37 PM	Completed
1474	category-based-prope...	9/18/2019, 4:37:10 PM	Completed
1475	category-based-prope...	9/18/2019, 3:49:21 PM	Completed



sparklyr - Spark Jobs +

localhost:4040/jobs/

Spark 1.6.2 Jobs Stages Storage Environment Executors SQL sparklyr application UI

Spark Jobs (?)

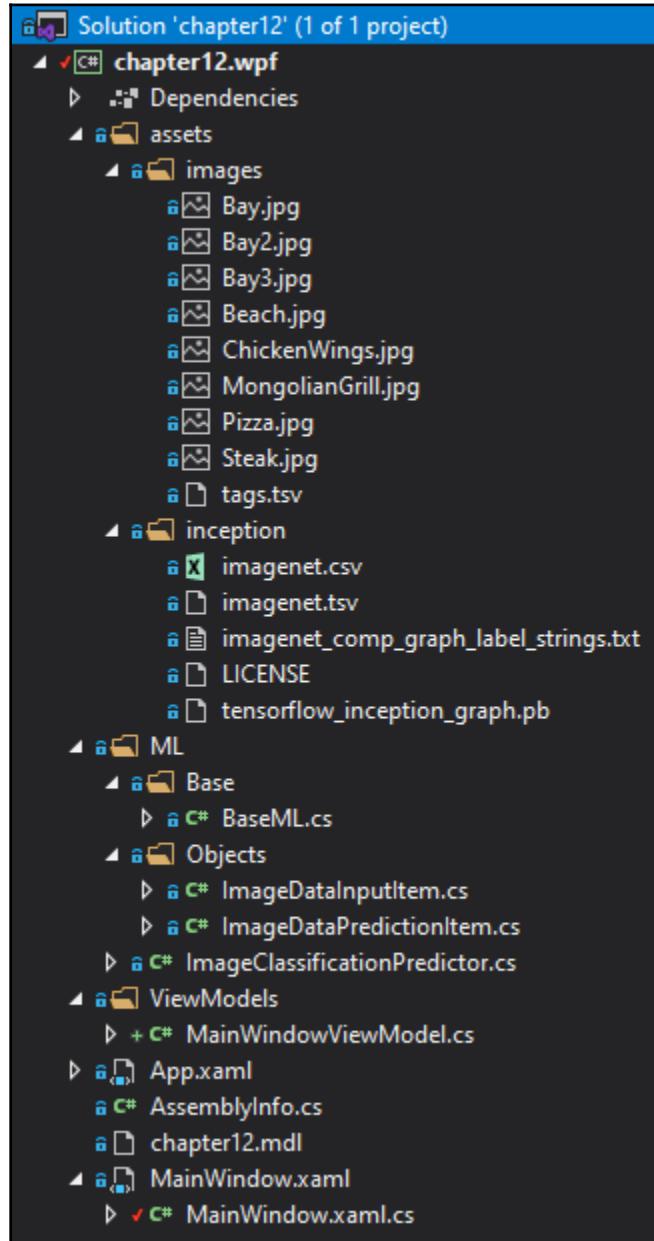
Total Uptime: 1.3 h
Scheduling Mode: FIFO
Completed Jobs: 29

Event Timeline

Completed Jobs (29)

Job Id	Description	Submitted	Duration	Stages: Succeeded/Total	Tasks (for all stages): Succeeded/Total
28	count at NativeMethodAccessorImpl.java -2	2017/04/12 20:28:12	0.2 s	1/1	1/1
27	collect at utils scala.52	2017/04/12 19:47:32	43 ms	1/1	2/2
26	count at NativeMethodAccessorImpl.java -2	2017/04/12 19:47:32	0.2 s	2/2	3/3
25	collect at utils scala.195	2017/04/12 19:40:41	7 ms	1/1	1/1

Chapter 12: Using TensorFlow with ML.NET



Chapter 12



Select Image File

Chapter 12



Select Image File



Image (C:\Users\jcape\Desktop\LakeEibsee_Germany.png) is a picture of water with a confidence of 98.84%

Chapter 13: Using ONNX with ML.NET

Image Classification



Water

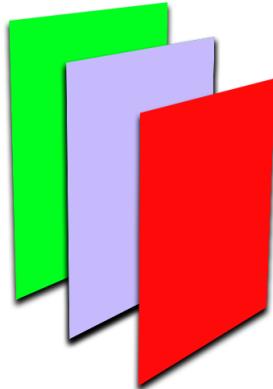
Object Detection



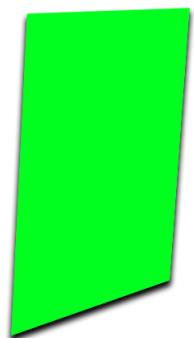
Car



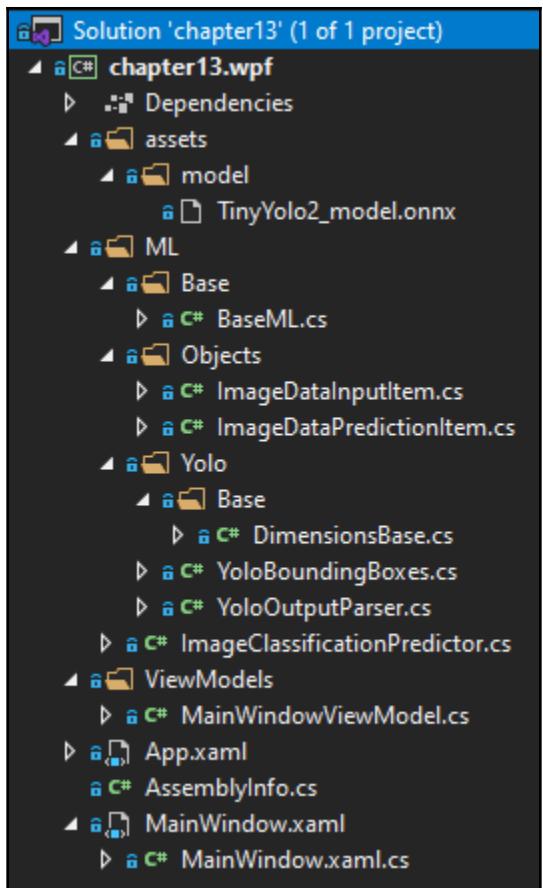
Input Layer (3x416x416)



Hidden Layers



Output Layer (125x13x13)



Debug ▾ Any CPU ▾ ➤ chapter13.wpf ▾

