Spring 2025: CS5720 Neural Networks and Deep Learning
MINI-PROJECT

GITHUB LINK: https://github.com/SrilakshmiKokanti/apple_disease_detection

Figure 1
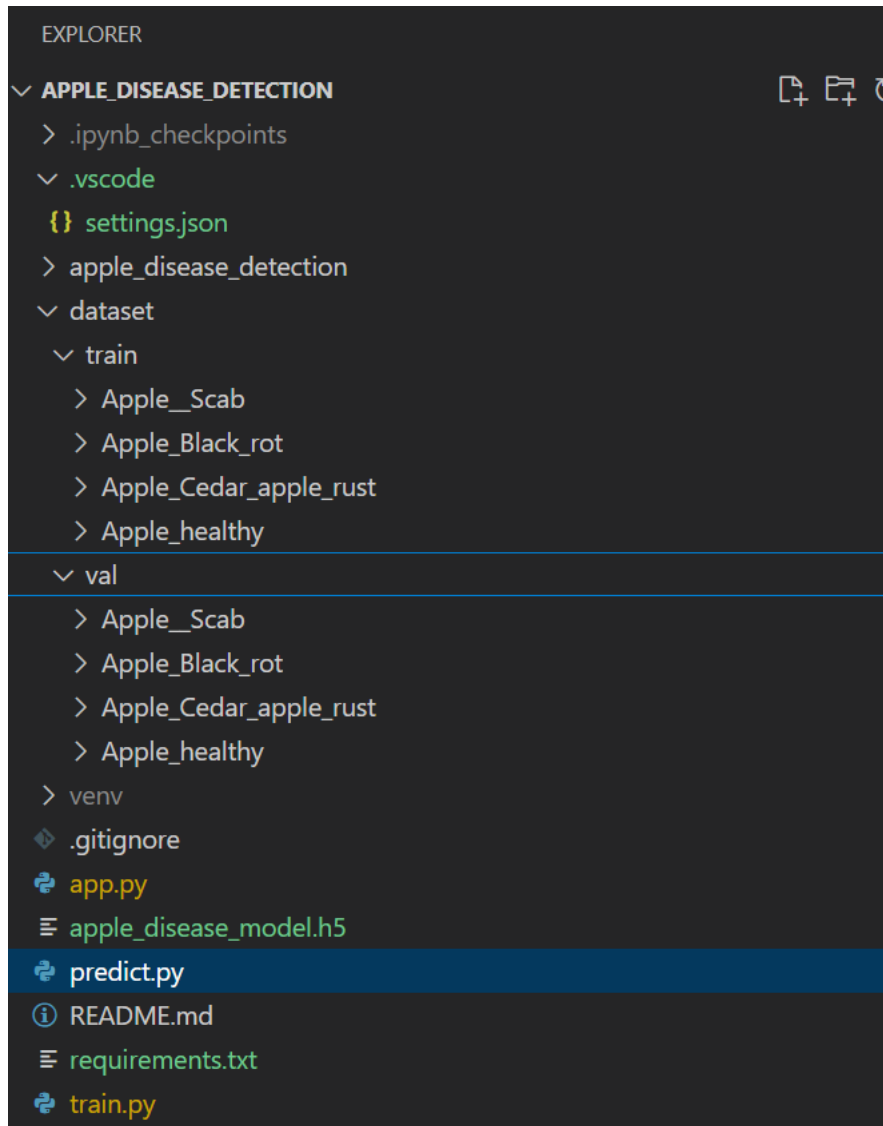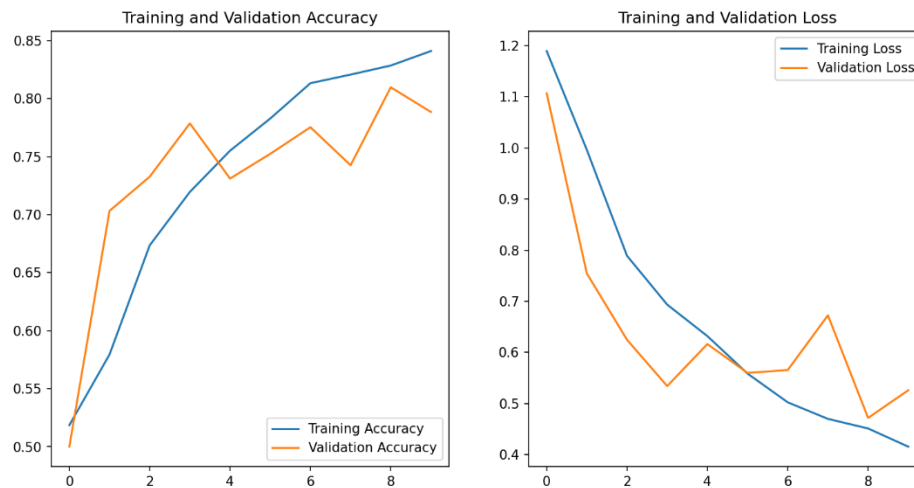
Training and Validation Accuracy — Training and Validation Loss

```
(venv) PS C:\Users\SRILAKSHMI KOKANTI\Desktop\UCM\Neural\apple_disease_detection> python predict.py
2025-04-15 11:50:10.783021: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may see slightly different numerical re
sults due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ON
EDNN_OPTS=0`.
2025-04-15 11:50:13.052394: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may see slightly different numerical re
sults due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ON
EDNN_OPTS=0`.
2025-04-15 11:50:19.473223: I tensorflow/core/platform/cpu_feature_guard.cc:210] This TensorFlow binary is optimized to use available CPU in
structions in performance-critical operations.
To enable the following instructions: SSE3 SSE4.1 SSE4.2 AVX AVX2 AVX512F AVX512_VNNI FMA, in other operations, rebuild TensorFlow with the
appropriate compiler flags.
WARNING:absl:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train
 or evaluate the model.
1/1 ━━━━━━━━━━━━━━━━━━━━ 0s 147ms/step
Predicted class: Apple___Black_rot
Confidence: 0.8702
(venv) PS C:\Users\SRILAKSHMI KOKANTI\Desktop\UCM\Neural\apple_disease_detection>
```