**GUIDE**

1. **Install Anaconda and Visual Studio Code**

Install anaconda on your OS by following instruction in following link

<https://docs.anaconda.com/anaconda/install/index.html>

Download visual studio code and install it from following link

<https://code.visualstudio.com/>

1. **Setup Environment**

Create env name project\_tf using following command

* conda create -n python=3.8

Install tensorflow

* pip install tensorflow

Install OpenCV

* pip install opencv-python

Install matplotlib

* pip install matplotlib

Install tensorflowjs to convert model from keras to js format

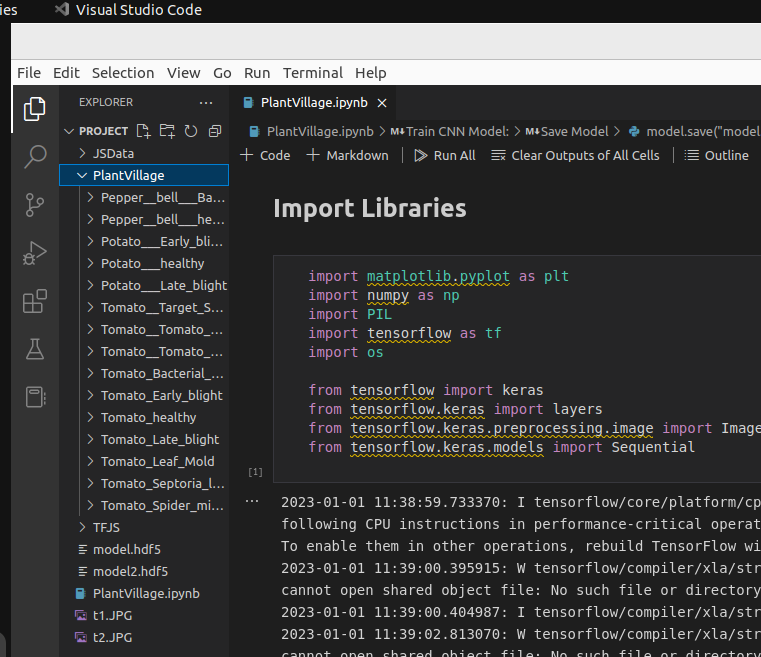
* Pip install tensorflowjs

1. **Run Code**

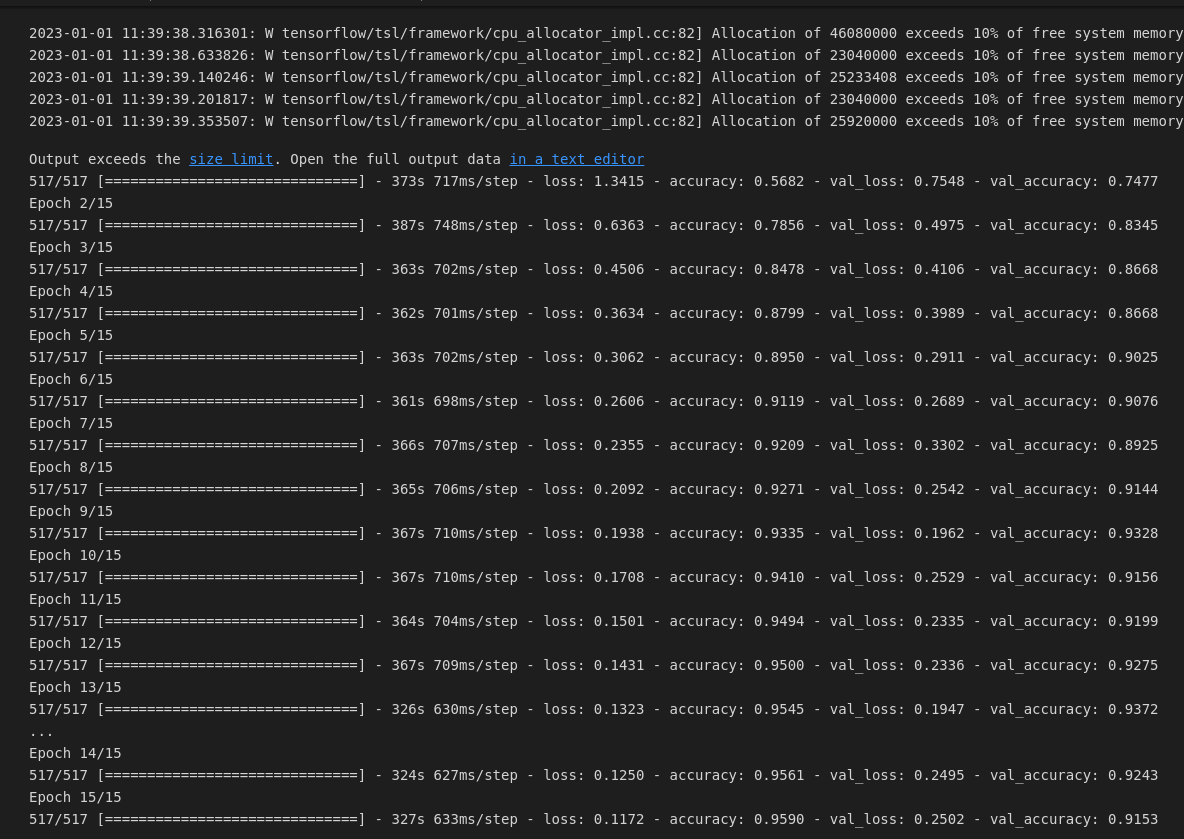
Download dataset from the following link

<https://www.kaggle.com/datasets/emmarex/plantdisease>

Extract data into directory where code files are present as shown in figure

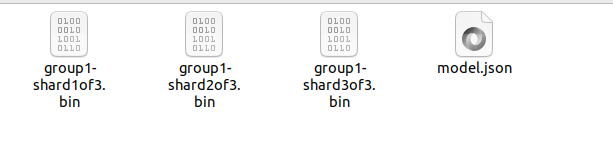


Run PlantVillage File to train Model and save model into model.hdf5 file



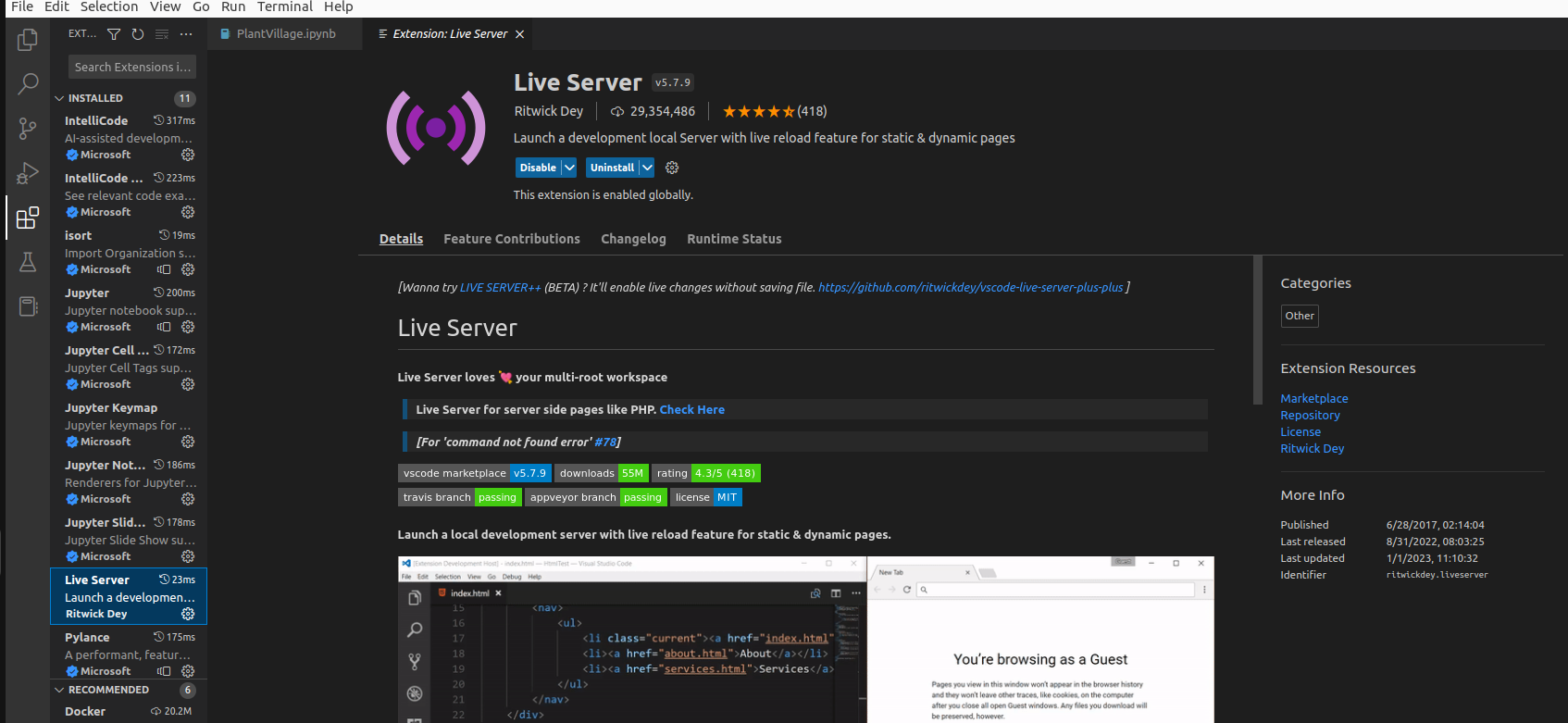
Convert keras model to js required format using following command and place resulted files inside folder used by

* tensorflowjs\_converter --input\_format keras --output\_format=tfjs\_graph\_model model.hdf5 TFJS/



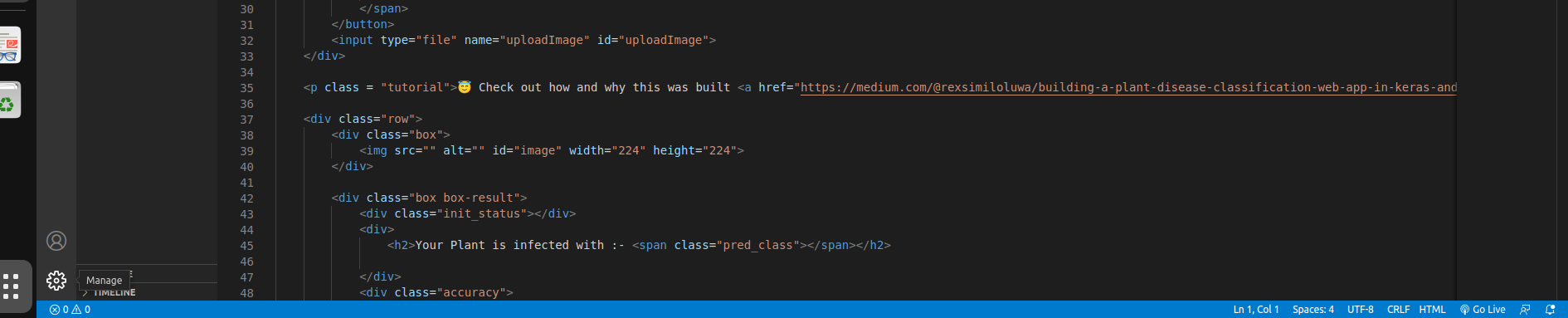
1. **Setup Server**

Install Live Server Extension inside Visual Studio code as shown in below figure



1. **Test App**

Go to index.html file and click on Go live in bottom right corner



Go to <http://127.0.0.1:5500/index.html> and test application

