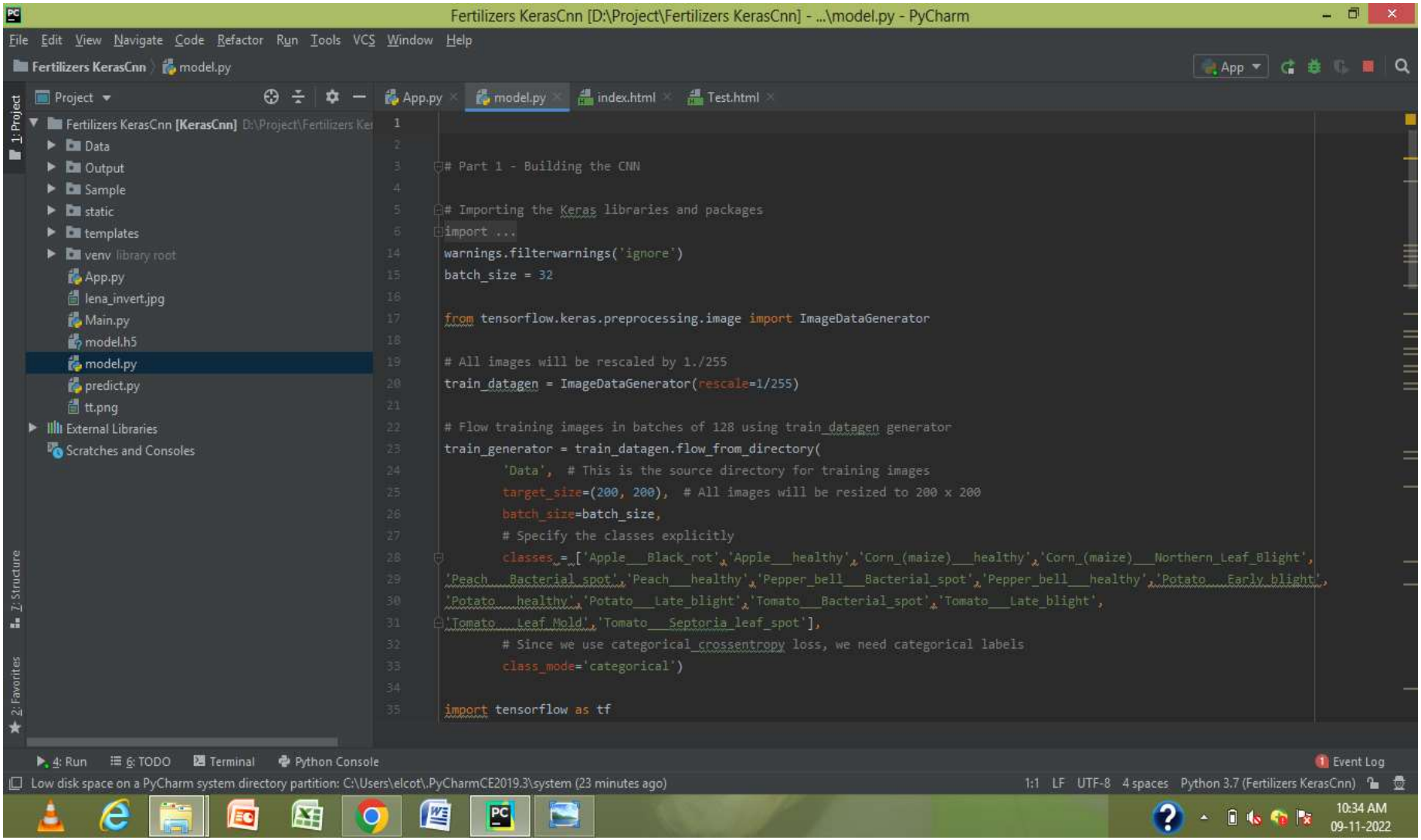
# INITIALING THE MODEL


Fertilizers KerasCnn [D:\Project\Fertilizers KerasCnn] - ...\model.py - PyCharm
File Edit View Navigate Code Refactor Run Tools VCS Window Help
Fertilizers KerasCnn model.py
App
Project
App.py model.py index.html Test.html
Fertilizers KerasCnn [KerasCnn] D:\Project\Fertilizers Ker
Data
Output
Sample
static
templates
venv library root
App.py
lena_invert.jpg
Main.py
model.h5
model.py
predict.py
tt.png
External Libraries
Scratches and Consoles
# Part 1 - Building the CNN
# Importing the Keras libraries and packages
import ...
warnings.filterwarnings('ignore')
batch_size = 32
from tensorflow.keras.preprocessing.image import ImageDataGenerator
# All images will be rescaled by 1./255
train_datagen = ImageDataGenerator(rescale=1/255)
# Flow training images in batches of 128 using train_datagen generator
train_generator = train_datagen.flow_from_directory(
'Data', # This is the source directory for training images
target_size=(200, 200), # All images will be resized to 200 x 200
batch_size=batch_size,
# Specify the classes explicitly
classes = ['Apple___Black_rot','Apple___healthy','Corn_(maize)___healthy','Corn_(maize)___Northern_Leaf_Blight',
'Peach___Bacterial_spot','Peach___healthy','Pepper_bell___Bacterial_spot','Pepper_bell___healthy','Potato___Early_blight',
'Potato___healthy','Potato___Late_blight','Tomato___Bacterial_spot','Tomato___Late_blight',
'Tomato___Leaf_Mold','Tomato___Septoria_leaf_spot'],
# Since we use categorical_crossentropy loss, we need categorical labels
class_mode='categorical')
import tensorflow as tf
4: Run 6: TODO Terminal Python Console
Event Log
Low disk space on a PyCharm system directory partition: C:\Users\elcot\.PyCharmCE2019.3\system (23 minutes ago)
1:1 LF UTF-8 4 spaces Python 3.7 (Fertilizers KerasCnn)
10:34 AM
09-11-2022