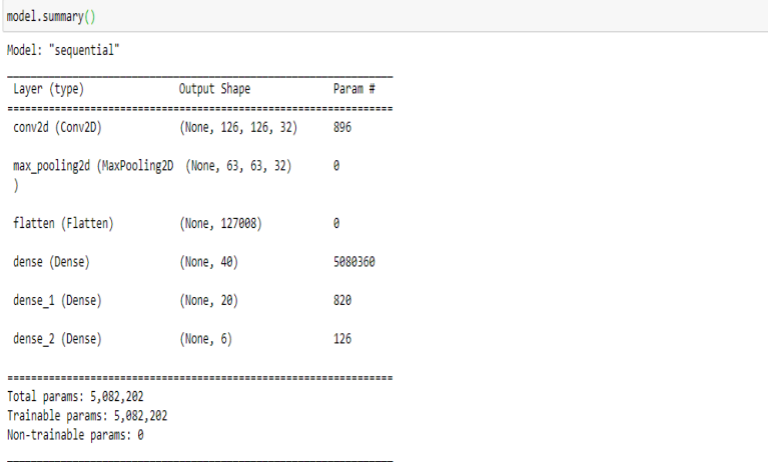
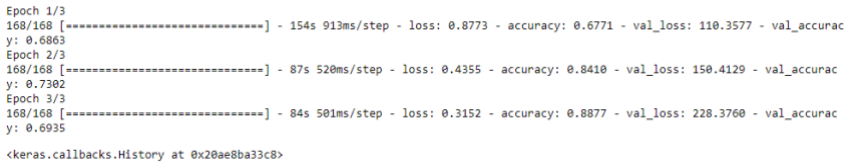


Project Development Phase

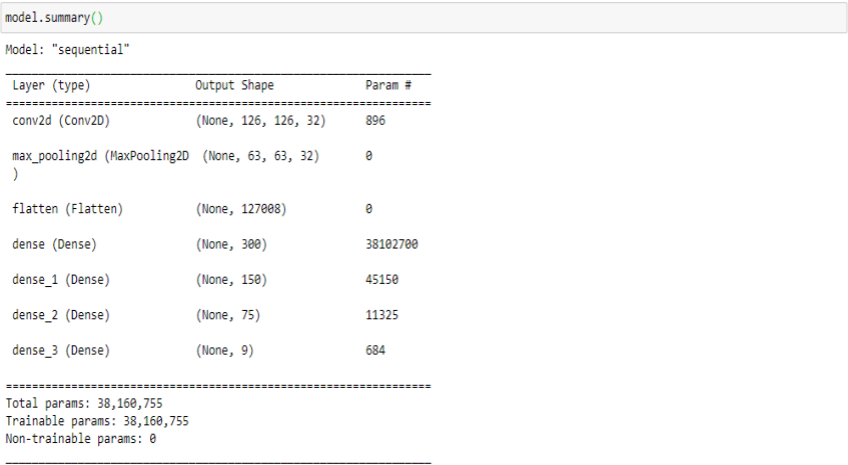
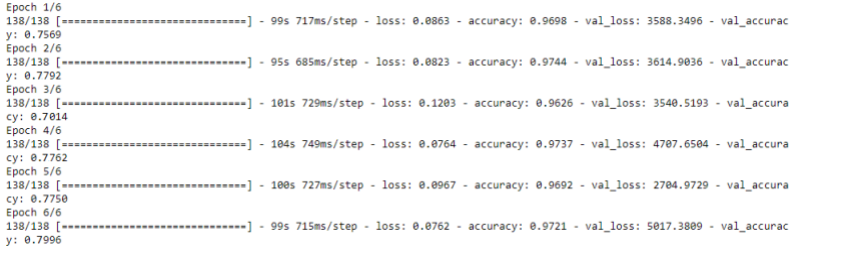
Model Performance Testing

| | |
|---------------|--|
| Date | 19 November 2022 |
| Team ID | PNT2022TMID21501 |
| Project name | Fertilizers Recommendation System For Disease Prediction |
| Maximum Marks | 10 Marks |

Model Performance Testing : Fruit model

| S.No | Parameter | Values | Screenshot |
|------|---------------------|--|--|
| 1 | Fruit model summary | Total p arams: 5,082, 202 Traina ble par ams: 5, 082,20 2 Non-tr ainabl e para ms: 0 |  |
| 2 | Accuracy | Traini ng acc uracy- 0.8877 Validat ion acc uracy- 0.7302 |  |

Model Performance Testing : Vegetable model

| S.No | Parameter | Values | Screenshot |
|------|-------------------------|---|--|
| 1 | Vegetable model summary | Total p arams: 38,160 ,755 Traina ble par ams: 38,160, 755 Non-tr ainabl e para ms: 0 |  <pre> model.summary() Model: "sequential" Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 126, 126, 32) 896 max_pooling2d (MaxPooling2D) (None, 63, 63, 32) 0 flatten (Flatten) (None, 127008) 0 dense (Dense) (None, 300) 38102700 dense_1 (Dense) (None, 150) 45150 dense_2 (Dense) (None, 75) 11325 dense_3 (Dense) (None, 9) 684 ----- Total params: 38,160,755 Trainable params: 38,160,755 Non-trainable params: 0 </pre> |
| 2 | Accuracy | Traini ng acc uracy- 0.9744 Validat ion acc uracy- 0.7996 |  <pre> Epoch 1/6 138/138 [=====] - 99s 717ms/step - loss: 0.0863 - accuracy: 0.9698 - val_loss: 3588.3496 - val_accuac y: 0.7569 Epoch 2/6 138/138 [=====] - 95s 685ms/step - loss: 0.0823 - accuracy: 0.9744 - val_loss: 3614.9036 - val_accuac y: 0.7792 Epoch 3/6 138/138 [=====] - 101s 729ms/step - loss: 0.1203 - accuracy: 0.9626 - val_loss: 3540.5193 - val_accuac y: 0.7014 Epoch 4/6 138/138 [=====] - 104s 749ms/step - loss: 0.0764 - accuracy: 0.9737 - val_loss: 4707.6504 - val_accuac y: 0.7762 Epoch 5/6 138/138 [=====] - 100s 727ms/step - loss: 0.0967 - accuracy: 0.9692 - val_loss: 2704.9729 - val_accuac y: 0.7750 Epoch 6/6 138/138 [=====] - 99s 715ms/step - loss: 0.0762 - accuracy: 0.9721 - val_loss: 5017.3809 - val_accuac y: 0.7996 </pre> |