**Supplementary Table 1. Tomato Leaf Image Information**

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| --- | --- | --- | --- |
| **Type of tomato leaf disease** | **Training Images** | **Validation Images** | **Test (Epoch)** |
| Late Blight | 750 | 250 | 100 |
| Healthy | 750 | 250 | 100 |
| Early Blight | 750 | 250 | 100 |
| Septoria Leaf Spot | 750 | 250 | 100 |
| Yellow Leaf Curl Virus | 750 | 250 | 100 |
| Bacterial Spot | 750 | 250 | 100 |
| Target Spot | 750 | 250 | 100 |
| Mosaic Virus | 750 | 250 | 100 |
| Leaf Mold | 750 | 250 | 100 |
| Two Spotted Spider Mite | 750 | 250 | 100 |

|  |  |  |
| --- | --- | --- |
| A green leaf on a gray background  Description automatically generatedA close-up of a leaf  Description automatically generated | | |
| **Supplementary Figure 1 : Classification of Input Images of Tomato Leaves representing (a) Late Blight, (b) Healthy, (c) Early Blight, (d) Septoria Leaf Spot, (e) Yellow Leaf Curl Virus, (f) Bacterial Spot, (g)Target Spot, (h) Mosaic Virus, (i) Leaf Mold, (j) Two Spotted Spider Mite**  A graph with black squares  Description automatically generated  **Supplementary Figure 2. Confusion Matrix of the VGG16 Fine Tuned Model**  A graph with red squares  Description automatically generated  **Supplementary Figure 3. Confusion Matrix of the NASNet model** | | |
| A graph of a graph  Description automatically generated  (a) | | A graph with blue and orange lines  Description automatically generated (b) |
| A graph of a line graph  Description automatically generated with medium confidence  (c) | | |
| **Supplementary Figure 4. Precision Curves of (a) VGG-16, (b) NASNet, (c) Proposed Model** | | |