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| **S No** | **Title** | **Objective** | **Methods** | **Description** | **Performance** | **Author & Year** |
| 1 | Vegetable Plant Disease Detection And Fertilizer Recommendation System [1] | Detects diseases in vegetable plants using advanced image processing and fertilizer recommendation. | CNN &  Machine learning algorithms | For various types of vegetable plant images, the system achieved a disease detection | Disease Accuracy-95%  Fertilizer Recommendation Accuracy-90% | Prof.Suhas Chavan, 2023 |
| 2 | A real-time application-based convolutional neural network approach for tomato leaf disease classification [2] | User-Friendly Interface | CNN – VGG- 19 | Website is created for determination of tomato diseases with CNN | Accuracy – 95% | Showmick Guha Paul, 2023 |
| 3 | Detection of Tomato Leaf Diseases for Agro - Based Industries Using Novel PCA DeepNet [3] | Accurately identifies diseases affecting tomato plants | Pipeline Method which includes GANs, PCA, CNN and F-RCNN | contribute to the advancement of disease detection in tomato plants. | Accuracy – 99.6% | KYAMELIA ROY1, 2023 |

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| 4 | DCNet: DenseNet77-based CornerNet model for the tomato plant leaf disease detection and classification [5] | Enhance accuracy in identifying disease patterns | Corner net  DenseNet | DCNet combines DenseNet77's feature extraction capabilities with CornerNet's. | Accuracy -99.7% | Saleh Albahli1, 2022 |
| 5 | Tomato Disease Detection Model Based on DenseNet and Transfer Learning [6] | Developed a disease detection model by leveraging DenseNet and transfer learning techniques | DenseNet201 | Using DenseNet and transfer learning with pre-trained features | Accuracy-95% | Mahmoud BAKR,2022 |
| 6 | Less Is More: Lighter and Faster Deep Neural Architecture for Tomato Leaf Disease Classification [7] | Design a streamlined deep neural architecture and efficient tomato leaf disease classification | mobile net v2 | develop a lightweight and faster deep neural architecture to enhance the speed and efficiency | Accuracy- 99.30% | SABBIR AHMED, 2021 |

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| 8 | A generic intelligent tomato classification system for practical applications using DenseNet-201 with transfer learning [8] |  | DenseNet201 with transfer learning |  | Accuracy-96% | Tao Lu1, Baokun Han1, 2021 |