**Table 2: Results Comparison of Proposed Model with Other Works**

| Paper Name | Model | Accuracy | Computational Requirements | Suitable for Real-Time? | Dataset Name | Number of Images |
|---|---|---|---|---|---|---|
| Detection and Identification of Plant Leaf Diseases using YOLOv4 (2022) | YOLOv4 | 98% | High (Requires GPUs, high memory) | No | New Plant Diseases Dataset | 87,000 |
| Advanced Deep Learning Models-Based Plant Disease Detection (2023) | ResNet + TL | 97% | Moderate to High (Requires GPUs) | No, challenging for real-time | New Plant Diseases Dataset | 54,306 |
| Revolutionizing Agriculture with AI: Plant Disease Detection (2024) | DenseNet | 97.81% | Very High (Requires GPUs, high memory) | No | New Plant Diseases Dataset | 87,000 |
| **Kumar & Sharma (2024)** | CNN + ResNet | 97.5% | Moderate (Suitable for standard GPUs) | Yes, though some lag in real-time applications | New Plant Diseases Dataset | 87,000 |
| **Mehta & Rajan (2024)** | DenseNet | 97.9% | High (Optimized for high-capacity GPUs) | No | New Plant Diseases Dataset | 87,000 |
| Leaf Disease Detection Using MobileNet for Real-Time Deployment (2023) | MobileNet | 89.2% | Low (Optimized for mobile devices) | Yes, ideal for mobile usage | PlantVillage Dataset | 54,305 |
| EfficientNet for Scalable Plant Disease Detection (2024) | EfficientNet | 96.5% | Moderate (Efficient for edge devices) | Yes, suitable for edge devices | PlantVillage Dataset | 38,000 |
| High-Resolution Plant Disease Detection with VGG16 (2023) | VGG16 | 95.7% | High (GPU-intensive, high memory) | No, not ideal for real-time | Plant Disease Database | 60,000 |
| **Your Project (Proposed Model)** | CNN + ResNet | **98.2%** | Moderate (Can run on GPUs or optimized CPUs) | **Yes, ideal for real-time on edge devices** | New Plant Diseases Dataset | 87,000 |