**Advantages & Disadvantages**

**Advantages:**

1. Early Detection of Diseases  
     Helps farmers identify poultry diseases quickly before they spread, saving time and birds.
2. Easy to Use  
     The web interface is simple and user-friendly. Farmers only need to upload a photo.
3. Cost-Effective  
     No need for expensive veterinary visits. It can be used from home using a mobile phone.
4. Accessible in Rural Areas  
     Designed to help farmers in remote areas who may not have access to veterinary services.
5. Fast Results  
     The AI model gives disease predictions in just a few seconds.
6. Scalable  
     Can be expanded to detect more poultry diseases or adapted for other animals and crops in the future.
7. Technology Integration  
     Uses modern AI techniques like Transfer Learning (VGG16) for better accuracy with limited data.

**Disadvantages:**

1. Limited Accuracy  
     The current validation accuracy is around 70–72%. It may misclassify in some cases, especially if image quality is poor.
2. Requires Good Internet  
     Users need an internet connection to use the web-based platform, which may not be available in some rural areas.
3. Limited Dataset  
     The model’s accuracy depends on the training data. If the dataset is small or unbalanced, prediction quality can suffer.
4. Not a Complete Replacement for Vets  
     The tool helps in initial detection, but serious or complex cases still require expert medical help.
5. Dependency on Image Quality  
     The tool may not work well if the uploaded images are blurry, unclear, or poorly lit.