**Problem Statement**

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| **Date** | **22 June 2025** |
| **Team ID** | **LTVIP2025TMID43223** |
| **Project Name** | **Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management** |
| **Maximum Marks** | **2 Marks** |

Poultry farming is a vital sector contributing to food security and rural livelihoods. However, both rural and commercial poultry farmers face persistent challenges in disease management due to limited resources, lack of awareness, and delayed access to veterinary services.

In rural communities, farmers often struggle to diagnose diseases accurately when poultry birds exhibit symptoms such as:

* **Lethargy**
* **Diarrhea**
* **Loss of appetite**
* **Reduced egg production**
* **Sudden mortality**

Without immediate veterinary intervention, diseases spread rapidly, causing significant economic losses.

For commercial farms, the stakes are higher as an outbreak can affect thousands of birds, leading to:

* **Productivity loss**
* **Damage to the farm’s reputation**
* **Financial losses due to mass culling or treatment costs**

Furthermore, the absence of affordable, accessible, and intelligent diagnostic tools limits farmers' ability to make timely decisions for disease management.

This project addresses the critical need for an **AI-powered, mobile-based poultry disease classification system** to enhance early detection, reduce disease impact, and improve productivity in poultry farming.

