HEMATOVISION: Advanced Blood Cell Classification Using Transfer Learning

Team ID: LTVIP2025TMID46030

Date: 17 July 2025

# Data Flow Diagrams (DFD)

## 1. Context Level DFD

The context-level Data Flow Diagram (DFD) provides a high-level overview of the system, showing the interaction between the external entities (users) and the HEMATOVISION system.

- External Entities: User, Email/OTP Service  
- Processes: User Registration, Confirmation, Cell Image Upload, Classification Result  
- Data Stores: User Database, Classification Results

## 2. Level 1 DFD

The Level 1 DFD breaks down the main process into subprocesses to provide more detail:  
- User Registration: via Form, Gmail, LinkedIn  
- User Confirmation: Email and OTP verification  
- Upload Blood Cell Image: Users upload cell images for analysis  
- Blood Cell Classification: System uses transfer learning model to classify cell type  
- Results Storage & Notification: Stores result in DB and sends notification