

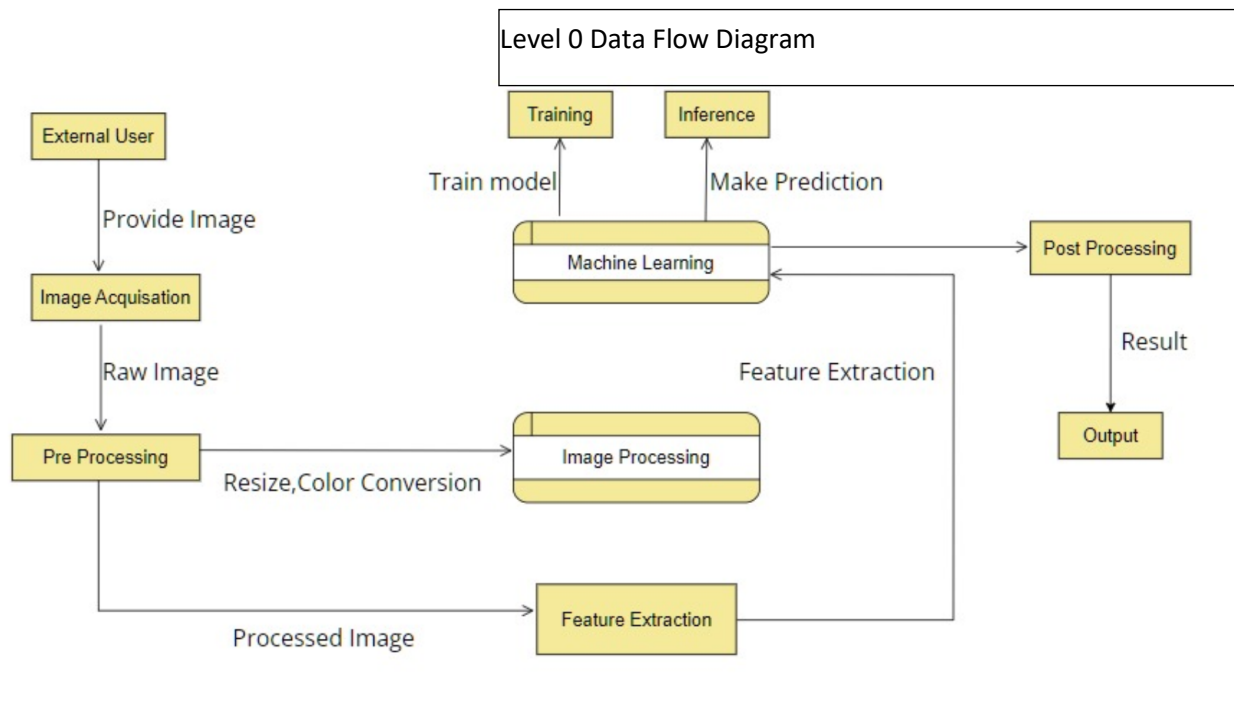
Project Design Phase-II

Data Flow Diagram & User Stories

Date	03 November 2023
Team ID	Team-593148
Project Name	Project – Fake/Real Logo Detection
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



User Stories:

User Type	Epic	User Story Number	User Story/Task	Acceptance Criteria	Priority	Release
End User	Develop Basic CNN for Logo Detection	USN-1	As a user, I want the system to identify logos	CNN model trained on a basic dataset for logo detection.	High	FLD Sprint-1
End User	Enhance Logo Detection Accuracy	USN-2	As a user, I want the system to accurately detect logos	Improved model accuracy with at least 90% precision and recall.	High	FLD Sprint-2
End User	Optimize Model for Real-Time Processing	USN-3	As a user, I want real-time logo detection	Model optimized for real-time processing, achieving a response time of less than 100 milliseconds per image.	High	FLD Sprint-3
Developer	Implement Image Augmentation	USN-4	As a developer, I want to improve model generalization	Image augmentation techniques applied, such as rotation, flipping, and zooming, to enhance model generalization	Medium	FLD Sprint-2
Developer	Data Collection for Training	USN-5	As a developer, I need a dataset for training	Dataset collected with a diverse set of real and fake logos	Medium	FLD Sprint-1
Developer	Implement Basic Logging and Reporting	USN-6	As a developer, I want logging for system analysis	System testing conducted, ensuring that the detector performs accurately and efficiently under various scenarios.	Medium	FLD Sprint-3
Developer	Implement Preprocessing	USN-7	As a developer, I want data preprocessing	Data preprocessing steps implemented, including resizing and normalization.	Low	FLD Sprint-1
Tester	Perform System Testing and Optimization	USN-8	As a tester, I want to validate system performance	System testing conducted, ensuring that the detector performs accurately and efficiently under various scenarios.	Low	FLD Sprint-3
FLD-sprint4	FLD-sprint3	FLD-sprint2	FLD-sprint1	FLD-sprint0	FLD-sprint1	FLD-sprint2