#### **Week 3 Report**

**Name of Project:** Intelligent ID Detection and Web Automation Tool for College Campus - Codename: CleverID

**Class and Specialization:** B.Tech CSE / AiML

**Group Members:**

1. Omkar Shirodkar
2. Faaz Siddiqui

**Points Discussed:**

1. **Development Environment Setup:**
   * Installed and configured Python, Tesseract OCR, Selenium, and required dependencies.
   * Organized project directories to separate OCR processing, automation, and user interface modules for streamlined development.
2. **Core Framework Development:**
   * Built the OCR module to preprocess images, leveraging OpenCV for noise reduction and edge detection to improve text recognition accuracy.
   * Developed the automation framework in Selenium to simulate login workflows using dummy credentials.
3. **Integration of ID Detection and Automation:**
   * Connected the OCR module with Selenium scripts, enabling scanned text from ID cards to populate login fields automatically.
   * Conducted initial tests with sample ID cards to validate the system’s functionality.

**Resources Used:**

* Python libraries: OpenCV, Tesseract OCR, and Selenium.
* ChromeDriver for Selenium testing.
* Sample ID cards for testing OCR and login workflows.

**Target for Next Week:**

* Add error handling for OCR misreads and refine the scanning process.
* Initiate user testing for *CleverID* to identify usability improvements.

**Guide Name and Signature with Remarks:**

* Name:
* Signature:
* Remarks: