Project title: **Smart Attendance System**

Problem Statement

Taking attendance in schools is often slow and prone to mistakes when done manually or with ID cards. Teachers may waste valuable class time, and students can find ways to cheat the system.

To solve this, we need a more accurate and efficient way to track attendance. By using a system that combines face recognition and fingerprint scanning, we can make the process faster and more secure. This **Smart Attendance System** will help schools automatically and reliably record student attendance, saving time and reducing errors.

Objectives

1. **To automate attendance process** - Develop a system that automatically captures student attendance reducing the need for manual roll calls.
2. **To enhance accuracy**- Ensure high accuracy in attendance recording by combining face and biometric data
3. **To increase security** – securely store and handle biometrics using encryption to protect student privacy and unauthorized access
4. **To enable real-time monitoring** - Enable real-time tracking of student attendance and provide immediate access to attendance records for teachers and administrators.
5. **To create scalable system:** Create a system that can be easily deployed in multiple classrooms and institutions, with the ability to handle large numbers of students and devices.