

Face Recognition API for Authentication

Problem Statement:

To Develop a fast and accurate Face Recognition System which can be integrated with other applications as an API or a template for providing authentication.

Description:

We're working on developing a face recognition app that can accurately identify and provide authentication. The application should work in two phases:

1. Registration Phase: User inputs certain details and his/her live pictures are taken from the camera.
2. Authentication Phase: Whenever a user tries to access the application, a picture is scanned and verified from the existing DB.

Expected Outcome:

A mobile application which can be used as a template or API for providing Face unlock feature to other applications. The application should be able to detect "liveliness" in the camera feed, so as to detect fake logins attempts using images.

Tech-stack:

Deep Learning, Android, Web, iOS (preferably React)
Flask server (Better if on device processing can be done)
Cloud Database for storing users data (preferably Firebase)