**Time Attendance System**

**Overview**

Face is a unique identity of any person. It is used in many domains and is the fastest growing research area, According to that we will use it to create smart attendance system that can detect faces, recognize people using their faces & record their attendance time.

**GOALS**

* Help organizations to record employees’ & students’ attendance time .
* Save time by getting rid of manual attendance recording.

**USED TECHNOLOGY**

* Python.
* OpenCV.
* Desktop Application.

**PEAS**

* **p :** Saving time , speed .
* **E :** Organization’s gates.
* **A :** Check database.
* **s :** Camera.

**ODESA**

* **o :** Fully observable.
* **d :** Deterministic.
* **e :** Episodic.
* **S :** Static.
* **a :** Single agent.

**Agent Type :** Goal-based agent.

**Problem Formulation:**

* **Initial State:** There is no one has been recorded his attendance.
* **Goal State:** Recording employees’ attendance & the time for that.
* **Path Cost:**  1 time unit per record.
* **Actions:**

1. Extracting faces from the real-time camera.
2. Knowing employees based on their faces.
3. Recording their attendance time & who record.

* **Successor Function:** Recording organization’s employees.

**Team members**

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