



Ahmedabad
University

Weekly Report

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Tasks performed in the week:**Face Recognition Algorithm**

During this week of the project, we focused on selecting and integrating the haar-cascade and LBPH algorithms for face detection and recognition, respectively. We also studied the theory and workings of the algorithms and fine-tuned the parameters of the LBPH algorithm to improve its accuracy.

Apart from this, we also studied about yagmail and automail module in python to implement email system in the attendance if required.

Outcomes of the tasks performed:

We selected the haar-cascade and LBPH algorithms for face detection and recognition. We modified the code to incorporate the chosen algorithms. We studied the theory and workings of the algorithms and gained a deeper understanding of their inner workings. We trained the LBPH model on a dataset of facial images and fine-tuned the algorithm's parameters to improve its accuracy.

Tasks to be performed in the upcoming week:

In the upcoming weeks, we plan to use Haar-cascade to detect faces in real time. We will crop the detected faces and pass them through the LBPH algorithm for recognition. We will modify the code to store attendance data in a database or CSV file. We look forward to the project's next phase and that we can complete it within the given timeframe.