Facial Classification System

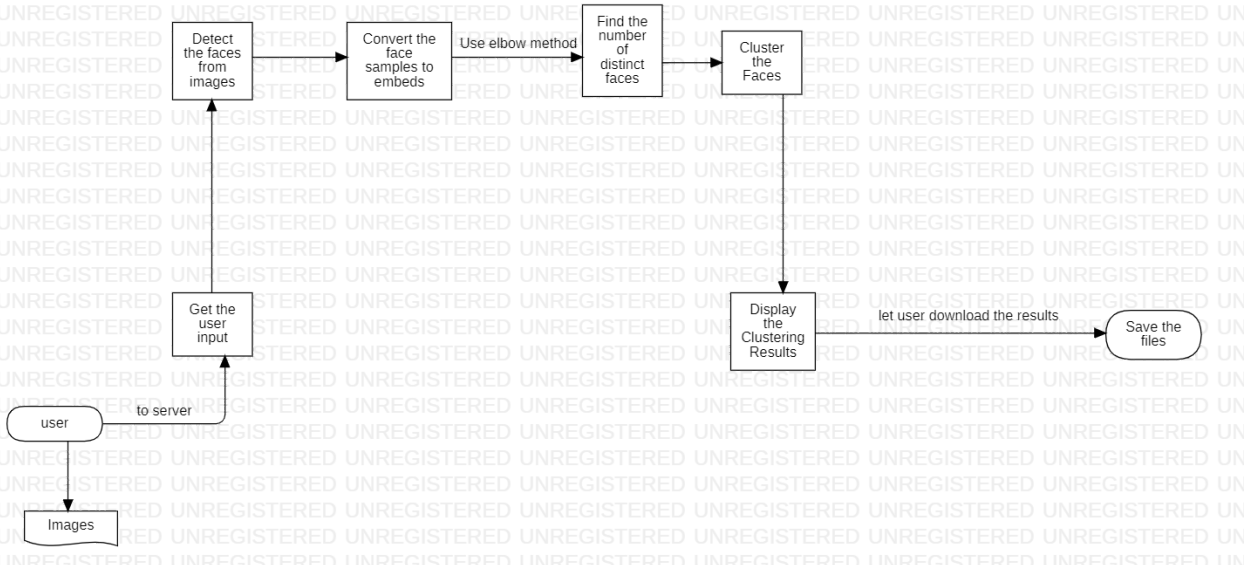
Abstract

The Face Classification System is a web application that uses face embedding techniques to classify images based on the presence of human faces. The system utilizes deep learning algorithms to extract features from the facial images, creating a high-dimensional vector representation of each face, which is known as a face embedding. The face embeddings are then compared with pre-trained classifiers to accurately identify and classify images based on the number of faces present, their age, gender, and emotions. The system is designed to be highly accurate and efficient, enabling it to process large volumes of images with ease. The Face Classification System has potential applications in various industries, including law enforcement, social media, and advertising.

Software requirements

- Python
- Flask
- Sklearn, bootstrap

Methodology



Working Walkthrough

1. Upload the images
2. View the results
3. Download the results

Advantages

- List out the advantage
- Could be the use cases

Limitations

- List out the limitations of your project.
- Every project must have a limitation, so please mention them.

References

- GMM: https://www.geeksforgeeks.org/gaussian-mixture-model/

Link

Github: https://github.com/Amirth24/Facial-classification