

FINAL PROJECT

Attend Me

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Abstract:

In This project, we aim to an automated preparation system using a facial recognition system, the faces with masks and without masks. The emotions of the people. Also, determine the time of attendance.

Design:

The dataset in this project is from the Kaggle website. This dataset shows a group of people who have been identified using the facial recognition system.

Data:

This dataset contains faces of 31 different classes, it contains 90,000 normal faces.5000 masked faces for 525 people

Algorithms:

1. Add all the necessary libraries and read the data
2. Split data and use data shuffle
3. Build deep learning models to learn a person's face, name, and feelings
4. Test models:
 - VGG-19
 - VGG-16
 - InceptionV3
 - FaceNet
 - MobileNetV2
5. Visualization of the results of the models
6. Record the preparation data in an excel file

Tools:

Pandas - NumPy - Sklearn - Keras - Matplotlib – Tensorflow - OpenCV – CV2