PROJECT TITLE: Facial Emotion Recognition with Deep Learning

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ABSTRACT: In this study, we aim to find the emotional expression equivalents of human faces in an image. Our work should identify a human face that has the appropriate angle and brightness values in an image and report his/her current emotional state by making various analyzes. For example, we should see the 'happy' response of a smiling person's image.

PROJECT SCHEDULE: We planned the project schedule as follows:

1. Searching the project subject, 16.11.2020 - 20.11.2020
2. Initial literature search, 20.11.2020 - 05.12.2020
3. Preparing the midterm report, 05.12.2020 - 07.12.2020
4. Midterm report delivery, 07.12.2020
5. Project implementation, 07.12.2020 - 15.01.2020
6. Preparation of final report and final presentation, 15.01.2020 - 22.01.2020
7. Final report and final presentation, 22.01.2020

LIST OF REFERENCES:

Web Links:

1. https://en.wikipedia.org/wiki/Emotion_recognition

2. https://www.kaggle.com/c/challenges-in-representation-learning-facial-expression-recognition-challenge/data
3. https://www.theguardian.com/technology/2019/mar/06/facial-recognition-software-emotional-science

Papers:

1. **Title of article:** Facial emotion recognition using deep learning: review and insights
Authors of article: Wafa Mellouk, Wahida Handouzi

URL of article:
https://www.sciencedirect.com/science/article/pii/S1877050920318019

2. **Title of article:** Human emotion recognition by optimally fusing facial expression and speech feature
Authors of article: Xusheng, Xing Chen, Congjun Cao

URL of article:
https://www.sciencedirect.com/science/article/abs/pii/S0923596520300540

3. **Title of article:** Robust Representation and Recognition of Facial Emotions Using Extreme Sparse Learning
Authors of article: Seyedehsamaneh Shojaeilangari, Wei-Yun Yau, Karthik Nandakumar, Jun Li and Eam Khwang Teoh

URL of article:
https://ieeexplore.ieee.org/document/7067419