Parul Institute of Technology and Science

Computer Science and Engineering Department

- Project ID: **84**
- Team members Details:

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- Definitions Discussed with guide:
  - Definition 1: **Visual AI Assistant.**
  - Definition 2: **Face Emotion Detection and Sentiment Analysis.**
  - Definition 3: **Early Detection of Parkinson's Disease and Cancer Detection.**
  - Definition 4: **Signature Verification System.**

- Final Definition: **Face Emotion Detection and Sentiment Analysis.**

- Main Features:

Facial Emotion Detection:

Facial Landmark Detection:
Identify key facial features such as eyes, nose, and mouth for accurate emotion analysis.

Emotion Classification:
Train the system to recognize basic emotions such as happiness, sadness, anger, surprise, fear, and disgust.

Emotion Intensity:
Gauge the intensity of emotions, providing a more nuanced understanding of the emotional state.

Gender and Age Estimation:
Optionally, include features for estimating the gender and age of the person, which can enhance the analysis.

Sentiment Analysis:

Text Preprocessing:
Clean and preprocess text data to remove noise, irrelevant information, and standardize formats.

Sentiment Classification:
Train the system to classify text into positive, negative, or neutral sentiments.

Guide Name: JEENAL PATEL.

Sign:

Date: 29|12|2023