

Dataset:

To achieve the objective of the project, the classes we considered are Neutral, Engaged/Focused, Bored/ Tired and Angry / Irritated.

Overview of the datasets:

The total number of images present in the dataset are 2680 including both testing and training data.

Neutral: This facial expression is characterized by a relaxed face with no overt emotional expressions. The dataset for this class comprises a total of 750 images, encompassing both training and test data.

Engaged/Focused: This facial expression is identified when a student's face displays clear signs of active concentration, with attentive and sharp eyes. The dataset contains a total of 550 images for this class, including both training and test data.

Bored/Tired: This facial expression is distinguished by the appearance of fatigue or disinterest, often manifesting as tired-looking eyes or absent-minded gazes. The dataset consists of 630 high-quality PNG images, including both training and test data.

Angry/Irritated: This facial expression is recognized by signs of agitation or displeasure, which may include tense facial muscles, narrowed eyes, and a tight-lipped frown. The dataset encompasses a total of 750 images for this class, covering both training and test data.

Detailed information about images:

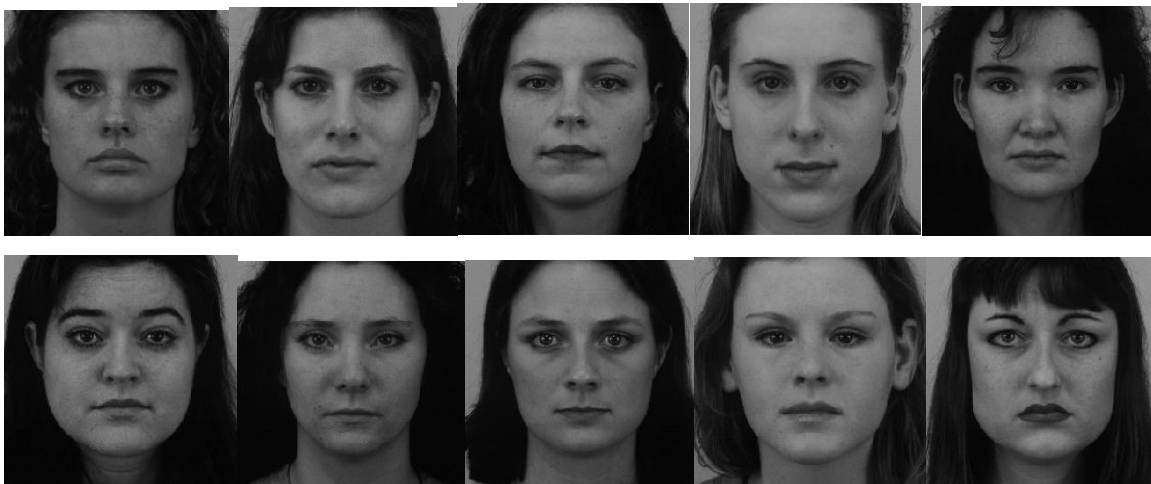
SNO	Class	Source Link of dataset	AuthorName	Licence
1.	Neutral	https://www.kaggle.com/datasets/sudarshanvaidya/corrective-reannotation-of-fer-ck-kdef/data	Sudarshan Vaidya (Owner)	Unknown
2.	Angry	https://www.kaggle.com/datasets/sudarshanvaidya/corrective-reannotation-of-fer-ck-kdef/data	Sudarshan Vaidya (Owner)	Unknown
3.	Bored	https://github.com/NVlabs/ffhq-dataset	Tero Karras (NVIDIA), Samuli Laine (NVIDIA), Timo Aila (NVIDIA)	Flickr
4.	Engaged	https://www.kaggle.com/datasets/ananthu017/emotion-detection-fer https://www.kaggle.com/code/hanimohamed/student-engagement-model/input istock	ARES Hani Mohamed	CC0: Public Domain

Sample images of each dataset are shown below

Anger:



Neutral:



Engaged:



Bored:

