

# EMOTION DETECTION

**BVRIT HYDERABAD College of Engineering for Women**

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# DESCRIPTION

- **Emotion Detection** is detecting humans emotion based on their expressions and display their emotion



# DATA SET

	emotion	pixels	Usage
0	0	70 80 82 72 58 58 60 63 54 58 60 48 89 115 121...	Training
1	0	151 150 147 155 148 133 111 140 170 174 182 15...	Training
2	2	231 212 156 164 174 138 161 173 182 200 106 38...	Training
3	4	24 32 36 30 32 23 19 20 30 41 21 22 32 34 21 1...	Training
4	6	4 0 0 0 0 0 0 0 0 0 0 3 15 23 28 48 50 58 84...	Training

- Rows : 35,887
- Columns : 3
- Target Columns : Emotion
- Number of emotions : 7 [ 0=Angry, 1=Disgust, 2=Fear, 3=Happy, 4=Sad, 5=Surprise, 6=Neutral]

# LIBRARIES

- Pandas
- Numpy
- Convolutional Neural Network
- OpenCV

# APPROACH

- Loading data
- Pre-processing the data
- Building model
- Training data
- Testing data
- Implementing OpenCV

# LEARNINGS

- Concepts of CNN
- Concepts of OpenCV
- Reducing overfit of the models

# CHALLENGES

- building layers and determining parameters
- Preprocessing the data
- Improving accuracy of the model

## GITHUB LINK

<https://github.com/akshaya-9/EmotionDetection>



DEMO