# CSE514A

**Project:** Human Emotion Classification

**Project description:**

We want to use Data Mining to build a Human Emotion Classifier.

The project is divided into six parts:

1) Use OpenCV and Dlib to recognize human faces in picture and extract 68 landmarks for each face.

2) Store the data in database. (Data point: the x and y position of the face landmarks)

3) Use data points to generate features for each picture.

4) Train classifier (Unsupervised learning)

5) Testing

6) Visualization

**Language:** python 3.6

**Database:** 10k US Adult Faces Database OR CK/CK++

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