Project Report: Facial Key point Detection

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# Problem Statement

Challenge is to develop a vision system capable of detecting facial key points in an image with high predictive accuracy.   
Desirables

* Good Model score
* Real time detection

# Implementation Steps

1. Data Collection/Loading
2. EDA of Data
3. Baseline Evaluation
4. Evaluation with Augmentation
5. CNN Based Evaluation
6. Implementation on real time video.

## Data collection

* Kaggle’s Facial Key point Challenge, YouTube Face’s Dataset (Alternatively)

## EDA

* TBD

## Baseline

* MLP building

## Augmentation

* Test with Basic Augmentation
* All Augmentation techniques

## CNN Implementation

* Use TensorFlow’s CNN Implementation

## Real time implementation

* TBD / Research needed