

Audience engagement

Emotion detection
By Apex team



**I've learned that people will forget what you said, people
will forget what you did, but people will never forget how
you made them feel.**

Maya Angelou

Lack of input from audience

For example: lack of input from students to educators. This problem reduces the quality of education by a lot.





However, you may argue that there are some very experienced educators and lecturers that can pretty much understand the condition of audience and react to it.

But are the **all** educators and lecturers are experienced that they can understand audience easily?

NO!



According to the statistics of famous “The Edvocate” american journal. There is a big problem of achievement gap in the education nation wide. It also states that reason for that is lack of recognition of students by educators. In another words, the problem is in lack of paying attention to students who left behind.

So what is our solution ?

**Our solution is
to detect the
emotion of the
audience and
deliver it to
the
appropriate
place**

By means of place I mean:

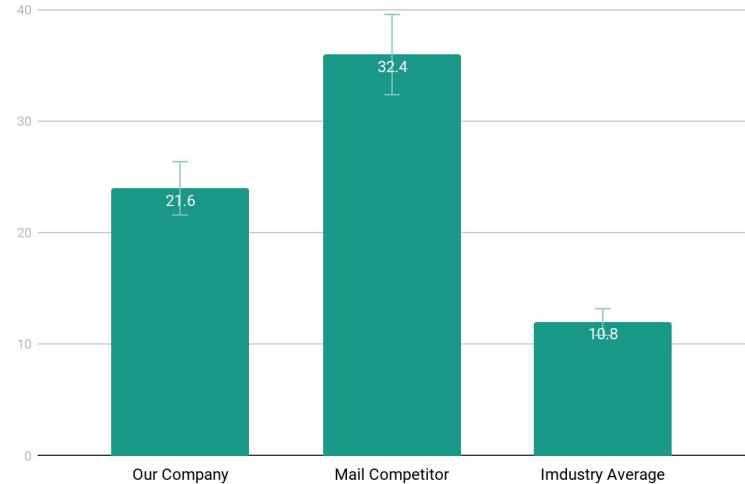
- The real time delivery of statistics of emotion gathered ,for instance, over past 10 or 5 minutes of engagement
- The delivery of statistics to academic department,in order to analyze the quality of lessons,seminars,lectures and so on.Which would give ability to make better decisions in their educational institution

What about monetization ?

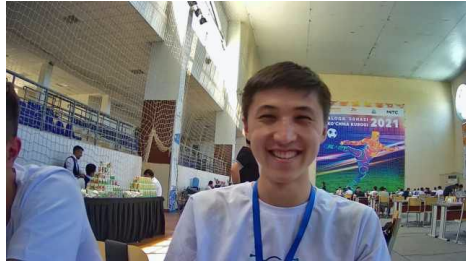


**1.Public
organizations(such
as schools and
universities)
2.private
companies(such as
restaurants and
concert makers)**

Net Promotor Score



How Emotions are detected?

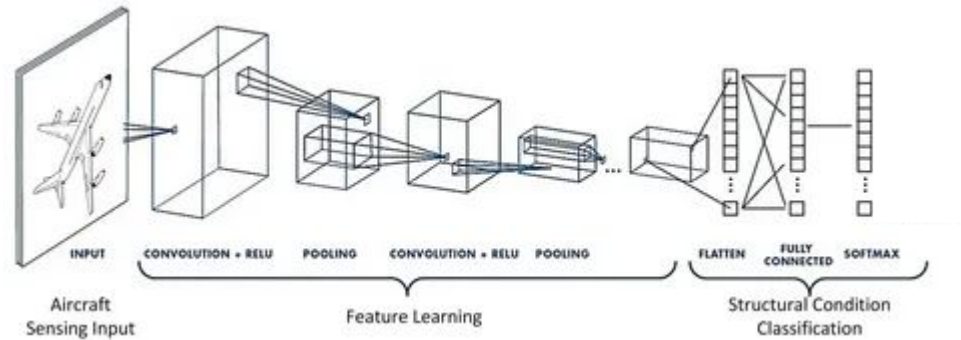


Model metrics

Used framework: Tensorflow

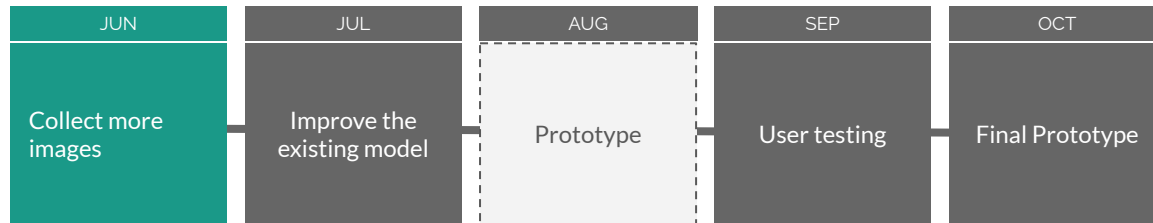
Accuracy score: 66.4%

Trained on 96/200 epoch





Timeline





What if we won money?

We will spend money on:

1. Training model in super computer
2. Collect more national faces into dataset
3. Creating and automating analytics report of emotions
4. Deploying into fast-server



What do we need to fully implement

1. Trustful dataset of faces with different emotions
2. High resolution camera to improve the quality of image collection
3. Good knowledge in eigenfaces, fisherfaces, Dr. Paul Ekman works on FACS
4. Financial fund to cover the cost of good camera, GPU cost in google colab



Contacts

Abdirayimov Sardor | Junior Data Scientist

Email: abdirayimovsardor20@gmail.com

Islamov Azizjon | Back-end developer

Email: topnuclearscientist@gmail.com