

**PROJECT TOPIC :** Distributed messaging app with features like gesture, hate speech recognition

**ABSTRACT :**

The main aim of the project is to build a messaging app with basic features like sending and receiving text and images. Multiple clients on different systems will be connected to a central server hosted on another system.

Here in this project we have added some additional modules (listed below) to our messaging application so as to make it more user friendly .We use Python to implement core deep learning concepts like CNN, Multilayer Perceptron (MLP), RNN.

We will use concepts like autoencoders (dimensionality-reduction), Adam (optimizer), Adagrad and RMS prop, Momentum. We use ReLu , sigmoid, tanh as activation functions as required.

We intend to embed the following features in the application :

Gesture recognition.

Emojinator

Face recognition

Hate Speech and offensive content recognition

Digit Recognizer

Chatbot (client-server model)

We train all our modules with standard datasets .We mostly use libraries like keras, tensorflow , matplotlib, cv2, dlib, h5py, scipy for standard implementation.

**\*\*“These are not final just indicative we will only include compatible modules only”**

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