***TBD***

*What is a chatbot?*

A chatbot is a software application used to conduct an on-line chat conversation via text or text-to-speech, in lieu of providing direct contact with a live human agent.

Chatbots interpret the words given to them by a person and provide a pre-set answer.

Most companies using **chatbot** do so for one purpose only. Either it's for making sales, generating leads, or providing support.

**LIBRARIES USED-**

* TensorFlow
* Keras
* Pickle
* Nltk
* Bottle requests

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**Preprocessing:-**

First we tokenize the sentence using tokenize function from nltk. This function give us a list of word in that sentence. To remove a duplicate word we will use lemmatize function from nltk library. In this way we have created our vocabularies of word .

Now to make our train data we will separate each question by there intent will be the category of the question. We will convert each question into bag of word model. So now for each question we have X\_train as bag of word vector for question and Y\_train is category of that question

**Training:-**

We will train a neural network in which input is bag of word vector. No of neuron in input layer is equal to size vocabularies. One hidden layer is given which has 64 neuron.

Number of neuron in output layer is equal to number of category of questions.

**Deployment:-**

We have used ngrok to host the telegram bot using our own pc as the server.

It is an app which provides us with public URLs for our interaction with Telegram

Webhook throughout the development phase. It is useful, as Telegram will not be

able to make a connection with our local server without specifying our local address in

their API configuration. We have provided the ngrok app setup in zip file for your ease

of installation.

**Procedure for deploying the bot:**

1. Run ngrok (ngrok.exe in Windows). It will open in Terminal (CMD). Run the command ngrok http 8080 (ngrok.exe http 8080), and copy the *https* link produced.
2. Then open your browser, and go to <https://api.telegram.org/bot1550259964:AAHGxJLzMqlrp8DcDfRtBufspsbnBnDxUvE/setWebhook?url=>*<nrgok\_URL\_>*

You shall receive a message “Webhook was set”

1. After that, run the code *tbd.py*
2. Search for our bot TBD (Username: @IamTBDbot), type */start* and ask what you want!