## Assignment

Title: Chatbot

Problem Statement:

To learn to implement an elementary chatbot

Outcomes:

Students will be able to understand the basics of HLP and implement elementary chatbot

· s/w 2 H/w requirements:

- 05 Ubuntu/fedora - Python libraries
- · Theory:

Chatbot is a software application used to conduct an onlines chat conversion, providing direct contact with a lue human great agent.

chatbots are used in dialog systems for various purpose including customer service information gathering, etc. While some chatbot applications use extensive word classification processes, HLP and sophisticated AI, other simply responses using common phases obtained from associated library or do

We use MLP for building our chatbot Different steps involved are

- 1) Loading the data
- 2) Cleaning the data 3) Model training
- 4) Taking input from user and providing response.

## 1 Loading the data:

The dataset used contains collection of words/sentences grounded accordingly to entent in joon file

(2) Cleaning the data:

clean this data by performing normalization, tokenization & lemmatization

-Normalization in NLP is the process of converting a word into it's cannonical - Two popular technique are stemming and lemmatization

3 Model Training:

we could use the cleaned the data to apply the classifying techniques

@ Providing response:

To provide a response we take input from user clean it and then pass to the model to classify it. We then choose any landow response from that group and provide result back

· Conclusion:

implemented an elementary charbot