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***SCHOOL OF COMPUTER SCIENCE AND
ENGINEERING***

***PROJECT REPORT ON TOPIC:-
CHATBOT ON MINOR SELECTION***

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INTRODUCTION

A Chatbot is an Artificial Intelligence (AI) software that can simulate a conversation or a chat with a user in Natural Language through messaging, websites, mobile apps etc.

Chatbot is often described as one of the most advanced and promising expression of interaction between human and machine. However, from a technical point of view, a chatbot only represents the natural evolution of Question Answering system leveraging Natural Language Processing (NLP).

First task that a chatbot performs is to analyze the user's request to identify the user intent and to extract relevant entities. The answer may be a generic and predefined text, a text retrieved from knowledge or data stored in the system.

How our Chatbot works :-

It accesses patterns from data file intents.json which consists of various dictionaries and store the root word for each word into a list which is done with stemming. Then it removes all duplicate words.

Then it creates a bag of words it adds 1 if word exists and 0 if word does not exist. Then training and output are converted into numpy arrays. Then it uses tensorflow to classify its data. Then using neural networking, it forms a network of output.

Then after training of data there are two functions bag_of_words and chat which are for output and chatting purposes. When you start the chatbot it says, "Start talking with the bot (type quit to stop)!".

This chatbot does use Neural Networking and Deep Learning so it is slightly intelligent but is easy to get working and testing.

Project Distribution

➤ Work Done by Abhishek Sharma (11801362) :

- Testing
- Intents / Data file
- Coding

➤ Work Done by Ravi (11801369) :

- Coding
- Training
- Tensorflow
- Intents / Datafile