



## KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

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FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE

46th SERIES OF STUDENT PROJECT PROGRAMME

**PROJECT PROPOSAL REFERENCE NUMBER : 46S\_BE\_0291**

**PROJECT PROPOSAL ENTITLED : E-LEARNING AI CHATBOT FOR EDUCATION  
INSTITUTE IN RURAL AREAS**

**NAME OF THE COLLEGE: SJC INSTITUTE OF TECHNOLOGY**

**BRANCH: INFORMATION SCIENCE AND ENGINEERING**

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## SYNOPSIS

An AI chatbot is a software that is used to interact between a computer and a human in natural language like humans chat. AI Chatbots chat with the user in a conversation in place of a human and reply to the user. The goal of this project on chatbot was to resemble a human being in the way they interact, trying to make the user think he is chatting with another human being. The chatbot application helps the students to access the university related information from anywhere with internet connection. This system reduces work of college administration providing information to students and also reduces the workload on the staff to answer all the queries of the students. One of the prime goals of AI chatbot is to resemble an intelligent human and make it difficult for the receiver of the conversation to understand the real working along with various architecture and capabilities for their usage has widely broadened.

These AI chatbots can prove sufficient to fool the user into believing they are “talking” to a human being, but are very limited in improving their knowledge base at runtime, and have usually little to no means of keeping track of all the conversation data. AI Chatbot makes use of machine learning to reach artificial intelligence helping them to understand the user query and provide an appropriate response. The chatbot are developed using the Artificial Intelligence Markup Language for communicating or interacting with the user. This consist software which will be made up using Artificial Intelligence and will help user to chat with machine. Not only do chatbot provide information quickly but they engage users through personalized experiences. This ultimately helps institutions improve their customer service and meet the needs of their students and staff. Students can create alumni groups or project groups on chatbot for students to exchange information about projects, assignments, deadlines, presentations, events and activities. Engaging with each other using conversational AI can help them create a better environment for studying and learning.

### OBJECTIVES OF THE PROJECT:

- The chatbot was to resemble a human being in the way they interact, trying to make the user think he is chatting with another human being.
- To help the students to access the college related information from anywhere with internet connection.
- To reduce work of college administration providing information to students and also reduces the workload on the staff to answer all queries of the students. To reduce the training time we will use DNN model

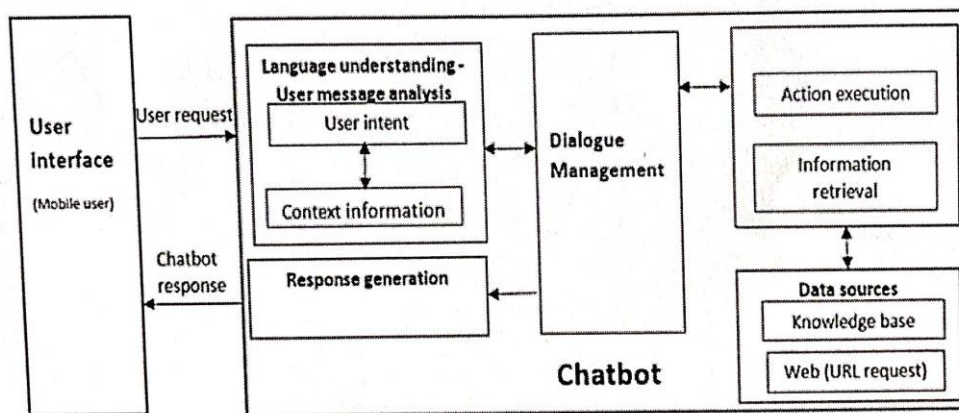
## METHODOLOGY:

### DNN

- Dense neural network suggests that layers are fully connected or dense by the neurons in a network layer.
- Each neuron in a layer receives an input from all the neurons present in the previous layer and hence, they're densely connected with one another.

### TF-IDF

- TF-IDF (Term Frequency and Inverse Document Frequency) is useful in solving the major drawbacks of Bag of words by introducing an important concept called inverse document frequency.
- It's a score which the machine keeps where it evaluates the words used in a sentence and measures its usage compared to words used in the entire document.

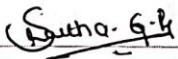


## OUTCOMES OF THE PROJECT :

- In this project we can expect that the chatbot can act as a human being so that the persons who are chatting can feel that they can chat with a real human.
- And also we can get the most accurate answers for the queries. This chatbot can reduce the work and time of the administration department, where it is not possible to explain each and everything for all the student.
- This chatbot will be a benefit for students, parents etc.

## CONCLUSION :

- A college chatbot website can be a very useful tool for providing quick and easy access to information about the college and its programs.
- The chatbot can answer a wide range of questions related to admission queries, transportation, courses and other related information.
- A well designed chatbot can provide a seamless and user friendly experience to prospective students and other users.
- To ensure the effectiveness of the chatbot it is required to test and validate the performance of the chatbot correctly.

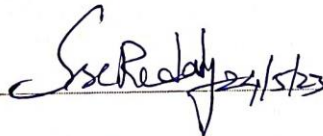


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