

MINI PROJECT – I

(2019-2020)

College Counselling Chatbot using IBM's Watson API

SYNOPSIS



Institute of Engineering & Technology

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About the Project:

This project aims at developing a chatbot that can help students in choosing the right stream and course for their under graduation. The project is being developed for the school passed out students who face a lot of problems while deciding which course and branch they should opt-in college/university.

The chatbot will work as an android app with a proper user interface. IBM's Watson is a powerful AI API that can be used to develop such bots. The chatbot uses IBM's Watson API as its backbone, which will provide the AI strength to the bot. A user can give his/her area of interest or future goals along with educational choices and the bot will provide the possible courses along with the college which he can opt for. It will also help the user with the scope and demand of the suggested course.

The user can provide his choices and options in the form of text or voice, which will then be converted into text by the backend of the app. This text query will be sent to Watson for further processing. Watson will analyze the user's query and will return the proper output using AI. This result will be displayed to the user in the form of voice and text depending on the mode user prefers. In this way, the chatbot will work as a counsellor for the students and will be beneficial to them.

Motivation:

Once after passing out school most of the students are confused in choosing the right stream and course for themselves. This choice is based on various factors such as area of interests, marks, and future choices. For example most of the students are confused whether to go with CSE or ECE branch of engineering. Many of the school passed out students do not have a proper idea about possible streams and available courses in them.

There are several firms which claim to provide a proper guidance to such students. A chatbot that can recommend possible streams, courses, colleges and other information to a student can be of great help to him in his choice making.

Future Prospects:

The chatbot can be integrated with a website of similar goals and therefore can help students in a much more enhanced way.

Requirements:

a) Hardware:

- **Laptop(minimum i3 processor or equivalent/4gb of ram)**
- **Android powered smartphone**

b) Software:

- **Android Studio**
- **Gradle**
- **Java**
- **Watson API**
- **Git for Version Control System and Github.**