**SMART CHATBOT**

Name: **Alind Sharma**

Contact Number: **7303899554**

Branch: **Civil Eng. (My cgpa is overall 10, so after 28 Feb my branch will change to Computer science Eng.)**

Email ID: **alind\_s@ce.iitr.ac.in**

Enrollment number: **22113013**

* Introduction:

In this section, you need to describe what your project will be. What we are expecting is something along the ideas mentioned in the HackMD.

**I am planning to create NLP and ML based Deep learning tool(chatbot) which will be helpful and provide almost all possible information of all the courses, hostels, fees, mess , timetable , branch change rules, etc of IIT Roorkee whoever is seeking information from IITR website. He/She can be student/ faculty / PHD / or any other associates .**

* How you came up with the idea?

What is your motivation behind choosing that particular project?

In case you went through some resources during the proposal phase that helped you decide on this project, you need to provide the link for the same in the references.

**I struggled a lot while I was planning to take admission in IIT Roorkee through JEE. I was facing challenges to get the information about the exact seats count for UG, courses, branches ,quota , tuition fees , syllabus , timetable , hostels , branch change rule etc. These challenges encourage me to come up with a chatbot type of tool which can provide all these information easily and conveniently on very home page of IITR website.**

* How is it related to the field of AI?

How does your project incorporate data science, ML/DL, or AI tools?

**This is a smart Deep learning chatbot, who will learn automatically as information is asked and continuously enhance its information bank based on the questions asked by the different users. Though initially chatbot will be based on the information we will feed into it and basis on the same this will provide the responses. the self-upgradation and continuous enhancement of information databank will be based on AI / NLP /ML .**

* Goals till mid-term evaluation

What will be your plan of action? What courses and books do you plan to refer to during your learning phase?

**1)To come up with the concept document (functional document) and completed requirement analysis.**

**2)To create wireframe and UI/UX**

**3)To come up with solution and technical architecture diagram depicting interfaces and integration between different front end , middleware , and back end .**

* Goals till end-term evaluation **(optional)**

We expect your answer to this during the mid-evaluation, but in case you have a clear idea during the proposal phase, you’re free to mention the same along the guidelines below:

This will be your primary coding and working phase.

What will be your plan of action, and what you aim to achieve till the end-term evaluation

1. **To complete the coding and integration of different components**
2. **To complete unit testing and functional testing**
3. **Perform performance testing.**
4. **To complete user acceptance testing (UAT)**
5. **Demonstration to final authority for final sign off**
6. **Production Go live.**
7. **Warranty support for first 2 weeks**

* Brownie points for secondary goals **(optional)**

Do you plan on working on it even after the BYOP phase and going beyond your proposal? If yes, do mention these here.

**YES. I will love to own this project and contribute so that IITR website will be more user friendly specially for the new admission seeker and their parents. I will love to contribute to DSG club by making more such projects that will help everyone and make their task easy and simpler.**

* References (if any)

**N/A**

About you and your experience with ML/DL

**While I don’t have any experience on ML and DL but I have very creative and innovative band of mind, and basic knowledge of NLP/DL.**

**Following are some pictures of chatbot from internet just to give an idea, of what type of chatbot we are intended to build.**

Graphical user interface, application, Teams

Description automatically generated A picture containing clipart

Description automatically generatedGraphical user interface

Description automatically generatedIcon

Description automatically generated