**Steps for building chatbot which identifies user context**

1. Collect past queries, emails, and FAQ sections related to admissions. This will be the primary dataset for fine-tuning.
2. Identify the most common questions that prospective students ask. These might include:

* Application deadlines
* Admission requirements (e.g., GPA, test scores)
* Financial aid and scholarships
* Programs/courses offered
* Housing and campus facilities

1. Categorizing the questions-answers pairs will help in creating a more structured training dataset (prompt-completion dataset).
2. Using the categorized dataset, fine-tune a model like GPT-2 will imbue the general knowledge of the LLM with specific knowledge about the institution's admissions process.
3. One limitation of models like GPT-2 is that they do not retain memory of past interactions within a session.
4. Allow users to provide feedback on the bot's responses. This could be as simple as thumbs up/thumbs down icons or a brief feedback form.
5. For queries the bot cannot handle or for more complex issues, have a system where the user can be directed to human support or provided with contact information for the admissions department.
6. Admission policies, deadlines, and other information can change. Periodically update and retrain the bot with new data.
7. Integrate the chatbot on key pages of your institution's website, especially on the admissions page.
8. Utilize analytics to track the most common queries, user satisfaction rates, and potential problem areas.
9. Analyzing the chatbot's interactions can provide insights into what prospective students are most concerned about, allowing for proactive adjustments.