



# Project Proposal

```
[i] = date[i];}for (i = 6; i < 8; i++){day[i] = token_5;temprature + index + humidity + windspeed;average = day is %f\n\n", average);}highest = temprature_comparision[highest];}lowest = temprature_comparision[lowest];}printf("The highest temperature comparison is %d, and the lowest is %d\n", highest, lowest);fflush(stdout);}
```

## Title: ChatAI

Prepared by: Team AutoChads

DSAI, IIT Guwahati

## The Group

Our group consists of three members, each with their specific interests. The team name was decided as a wordplay on the word "AutoChat", which describes our entire project in one word.

		
<b>Heet Patel</b>  I am interested in web development as of now, specifically front-end, but I like to explore around and see what I like. Apart from technical skills, I also like music a lot and I play lead guitar.  Roll number: 220150010	<b>Prince Tholia</b>  I have a dynamic personality, but right now, I can define myself as a student with a genuine interest in anything that brings me money and spirituality.  Roll number: 220150012	<b>Onkar Shinde</b>  I'm from Maharashtra. My primary interest lies in the art of photography.  Roll number: 220150021

## Project Overview

### The Challenge

User Experience challenges:

Due to insufficient time or patience, users struggle to express themselves effectively through text messages. The lack of personalized suggestions often results in generic and time-consuming interactions. Additionally, consistency in communication style can impact the user's overall experience.

Commercial challenges:

A substantial human effort is wasted in catering to consumer queries and needs repetitively. This poses a significant load on the finances of a company as they have to provide the salaries for the human workforce needed for it.

## Project Goals

- Designing a system for a better user experience.
- The system should be tailored for each user to provide a personalised experience.
- Considering data privacy and time in mind, the system should be able to mimic a human conversation in the user's style.

# Our Proposal

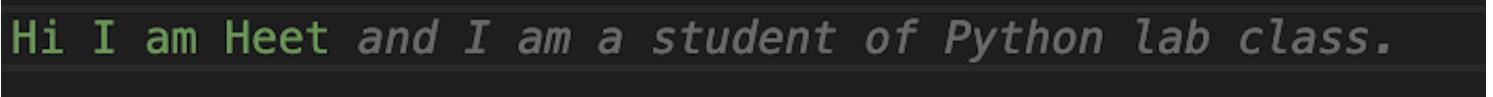
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We propose a project, **ChatAI**, a Python-based AI copilot software, that addresses these issues by providing a personalised chat experience, offering tailored completions and automatic replies based on the user's language, speaking style and preferences.

A **copilot** is an intelligent virtual assistant that transforms how we work and interact with technology. It leverages large language models (LLMs) and machine learning techniques to facilitate natural, human-like conversational interactions, supporting users in a wide variety of tasks.

## Proposed Solutions

- Chat integrated auto-completions.
  - Examples:



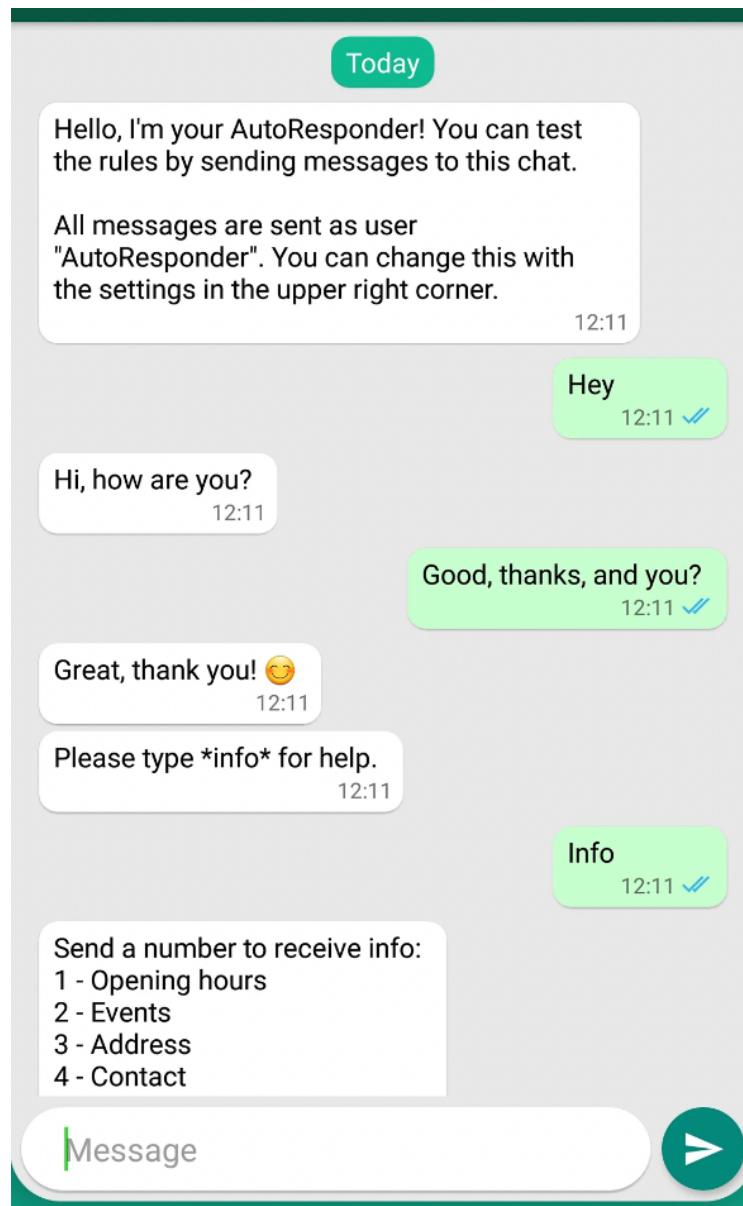
Hi I am Heet and I am a student of Python lab class.

Here is an example of how co-pilot works. The green text is the one I typed and the grey text is the suggestion by the software. Upon pressing a tab key, we can get the suggested text into the text field and use it. Here is one more example:



Hi I am Heet  
Hey bro how |are you?

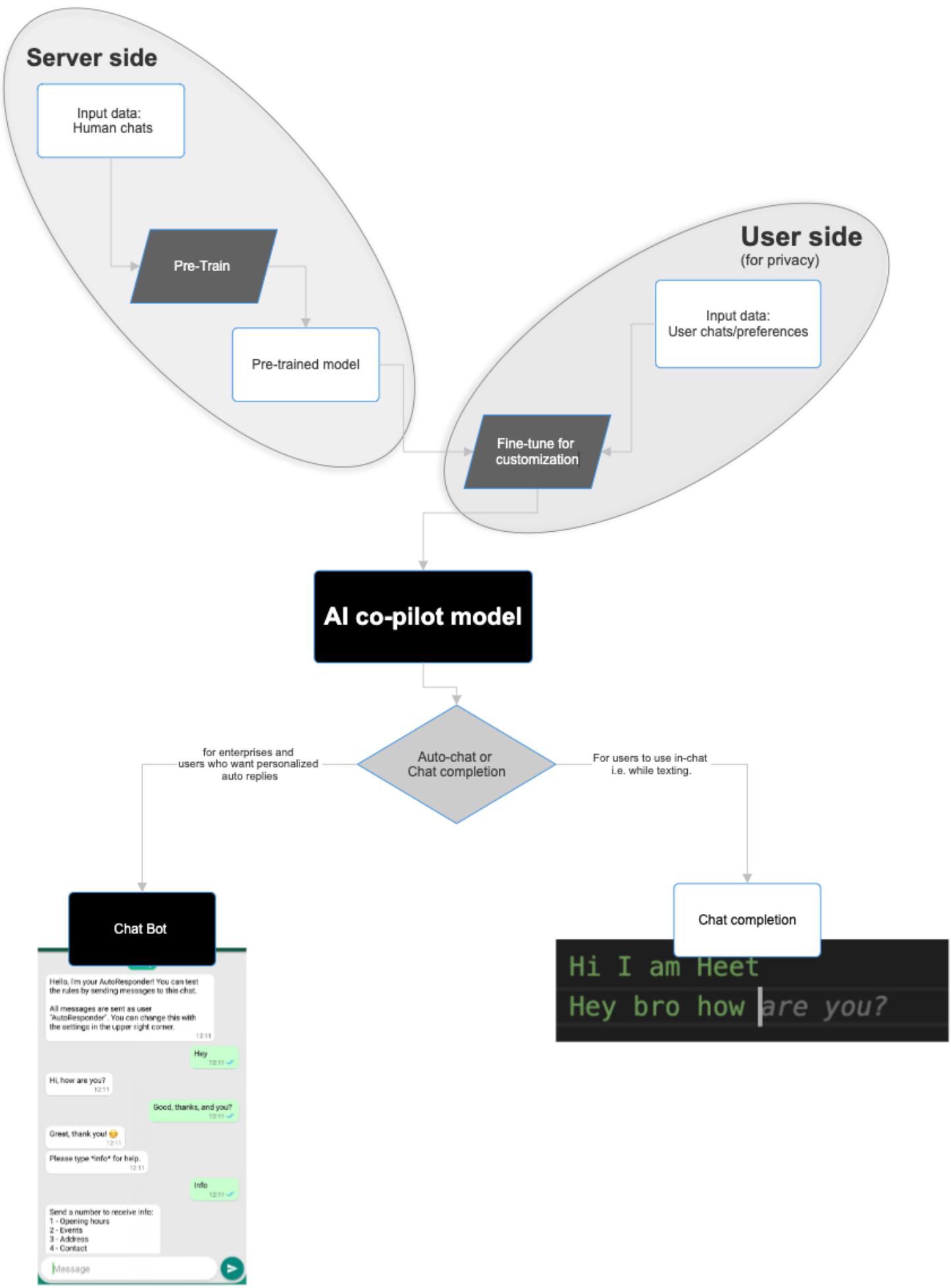
- Auto reply system based on the user's style of chatting.



Here is an example of a WhatsApp chatbot. Our software will customise the chatbot's responses based on what the chatbot's user wants to make it feel more human-like and user-friendly.

## Implementation: Block Diagram

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# Real-World Applications

*Improved User Engagement*

ChatAI enhances user engagement by providing personalized suggestions, making conversations more expressive and enjoyable.

### ***Time Efficiency***

The system streamlines communication by suggesting relevant completions and automating replies, saving users valuable time in message composition.

### ***E-commerce Customer Support Optimisation***

ChatAI can be integrated into e-commerce platforms to optimise customer support interactions. Businesses can improve customer satisfaction, reduce response times, and enhance the shopping experience by providing personalised chat completions and automating responses.

Some other applications are:

### ***Consistent Communication***

Automatic chat replies ensure a consistent tone and style in communication, addressing the challenge of maintaining coherence in messaging.

### ***Professional Email Management***

In corporate environments, professionals often spend significant time managing emails. ChatAI can streamline professional email communication by suggesting relevant completions and ensuring transparent and efficient correspondence.

### ***Language Learning Platforms***

The copilot software can provide personalized language suggestions and correct grammar and assist learners in creating contextually relevant sentences, improving the overall language learning experience on such platforms.

### ***Virtual Personal Assistant for Professionals***

ChatAI can serve as a virtual personal assistant for busy professionals in various industries. It automates routine communication tasks, such as scheduling appointments and responding to emails, allowing professionals to focus on core business activities.

### ***Legal and Consulting Services***

Professionals in legal and consulting services can use ChatAI to enhance document drafting and communication. The copilot software assists in crafting clear and professional messages, ensuring consistent communication with clients and stakeholders.