



< All problem statements

AI/ML

Instant Customer Support for Business Websites

Summary

Imagine revolutionizing customer service with an AI-powered chat agent that intuitively understands and responds to various customer needs, 24/7. This is your chance to shape the future of customer interaction, enhancing business efficiency and client satisfaction.

Requirements

1. Develop a text chat interface that maintains context over the conversation.
2. Focus on three customer scenarios: prospecting, complaint handling, and ongoing support.
3. Integrate backend tools for actions like calendar bookings, and ensure data privacy.

4. Implement escalation protocols for human operators for complex issues.

Access Free OpenAI API Keys!

Limited OpenAI API keys available at no cost for your hackathon project. Reach out [here](#) with your use case, and get keys for Speech-to-Text, Chat Completions, Embeddings, and more. Keys deleted post-hackathon.

Explore Models

You have the freedom to explore a wide range of models for your project. Not limited to the following options:

- [OpenAI API - Introduction](#)
- [Mistral 7B - Introduction](#)
- [SeamlessM4T - Introduction](#)

Additional Resources

Take your project further with these valuable resources:

- [Youtube - Voice Cloning In Multiple Languages - Open Source](#)
- [Youtube - Master Deep Voice Cloning in Minutes](#)
- [GitHub - 🗣️ Text-Prompted Generative Audio Model](#)
- [Notion - 🦊 Suno's Speaker Library](#)
- [CoLab - SeamlessM4T Notebook](#)
- [ElevenLabs - Voice Cloning: Clone Your Voice in Minutes](#)
- [GitHub - 🐱 A deep learning toolkit for Text-to-Speech](#)

Suggested Approach

Day 1 - 2: Conceptualization & Design

Product Management & AI/ ML Specialists:

- Define the scope and specific functionalities of the AI chat agent.
- Identify the key customer scenarios: prospecting, complaint handling, and ongoing support.
- Discuss the AI model's requirements for context maintenance and data privacy.

Frontend Development & Product Design:

- Design a user-friendly text chat interface.
- Ensure the interface is intuitive and aligns with typical customer support scenarios.

Backend Development:

- Begin setting up the server and database structure.
- Start integrating AI models and backend tools for functionalities like calendar bookings.

Day 3 - 4: AI Integration & Feature Development

AI/ ML & Data Science Specialists:

- Integrate NLP models for understanding and maintaining context in conversations.
- Implement logic for handling the different customer scenarios.

Frontend & Backend Development:

- Develop the chat interface and connect it with the backend AI functionalities.
- Implement features for data privacy and secure information handling.

Product Management:

- Plan and conduct initial testing to check AI responses and interface usability.

Day 5: Testing, Refinement, & Presentation

All Team Members:

- Perform comprehensive testing across all customer scenarios.
- Refine the AI's responses and ensure data privacy measures are effective.
- Implement escalation protocols for transferring to human operators.
- Prepare a presentation to showcase the AI chat agent's capabilities, focusing on customer engagement and business utility.

Other Problem Statements

AI/ML

Talk to Santa Claus

Bring the magic of Christmas to life by developing an AI where children can converse with Santa Claus. This enchanting project

Fintech

Simplifying Small Business Payments

Build an application that enables small businesses to manage their payments

AI/ML

Realtime Translation of Voice Calls

Embark on a journey to break language barriers. Create a real-time voice translation app that connects

is about creating joyous and safe interactions and making holiday wishes come true through innovative voice technology.

efficiently. This app should allow business owners to create profiles for each of their clients, track payment transactions, and receive real-time alerts for unpaid invoices.

people across the globe, enabling them to converse in their native languages effortlessly and expanding the horizons of communication.

AI/ML

Real-Time Air Quality

Design a real-time air quality dashboard that shows the air quality of any region worldwide, empowering users to take action.

AI/ML

Precision Farming for Best Product Results with Data

Build a solution that predicts the best time to plant and harvest crops, taking into account local weather conditions and soil quality. This solution will help farmers improve their yields.

Health

Medication Adherence Improved with Digital Solutions

Develop a digital solution to improve medication adherence for chronic patients. The solution should empower healthcare professionals and patients to manage medication

regimens
effectively.

EdTech

Intelligent Learning Connections

Build an AI-powered application that uses a collaborative learning matching system designed to enhance collaborative learning experiences by intelligently pairing learners based on their performance metrics.

AI/ML

Farmer Supporter

Make a significant impact on the agricultural sector by developing a website that assists farmers in making informed decisions. This project focuses on leveraging AI to provide expert advice on crop management, market insights, and real-time problem-solving.

AI/ML

Enabling Conversations with a Persona for Illiterates

Dive into the world of AI to create a voice chatbot that bridges the digital divide for illiterates. Your challenge is to craft an intelligent and empathetic digital companion that can converse naturally, offering a seamless and confidential communication experience.

Fintech

AI/ML

E-Commerce

Effortless Cross-Border Financial Transfers

Build an application that enables users to initiate cross-border money transfers with ease. The app should offer real-time exchange rate information, low transaction fees, and quick delivery of funds.

Conversing with an E- commerce Store Database

Transform how businesses interact with data by building a system where non-tech savvy users can query an e-commerce database using simple, everyday language. This challenge is all about bridging the gap between complex data management and intuitive user experience.

Advance Marketing growth with Business data insights

Create an application that allows e-commerce sellers to analyze customer behaviour, track sales performance, and tailor their marketing efforts based on real-time insights. This application should provide clear, actionable data for marketing optimization.

Health

AI-Powered Symptom and Diagnosis Guidance

Build an application that allows patients to describe their

symptoms and
receive
preliminary
medical advice
from an AI-
powered chatbot.
This app should
offer quick
responses and
help users decide
if they need to
seek in-person
medical care.