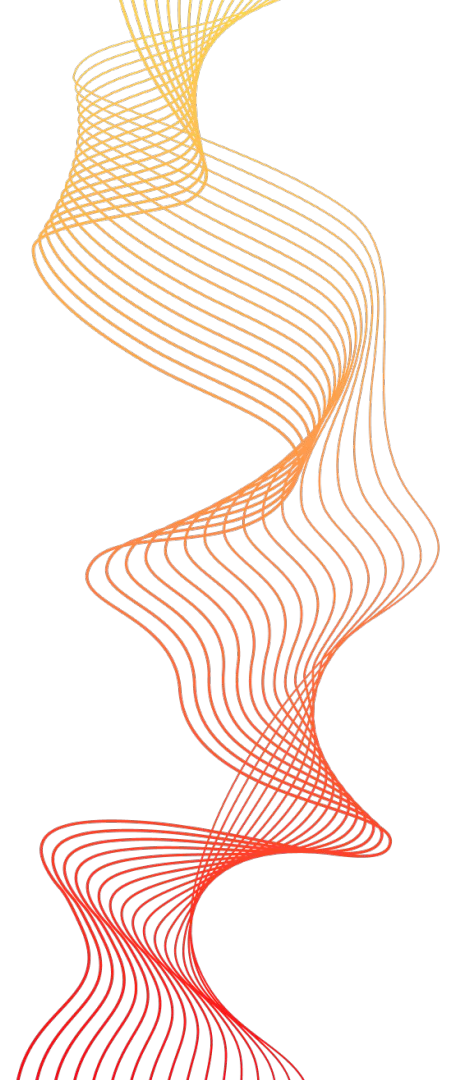# AI-Powered Healthcare Chatbot

Revolutionizing Personal Healthcare: Instant, Comprehensive, and Tailored Health Advice Powered by AI

**AI Agents Hackathon 2.0**

# Team members

**SJdata**

Design, Development  and Deployment

**Diego López**

Design and Development

**Ibrahim Laeeq**

Team Lead

**Muhammed Vasim**

Technical and content

**Faizal Noor**

Business

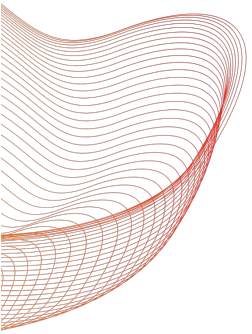**Sanath Kumar Vengaldas**

Idea Pitching

# Introduction

We are living in the era of technology advancement where Artificial Intelligence is revolutionizing various sectors, and healthcare is not an exception.

Despite the rapid growth of online health information, finding reliable, personalized health advice can be challenging.
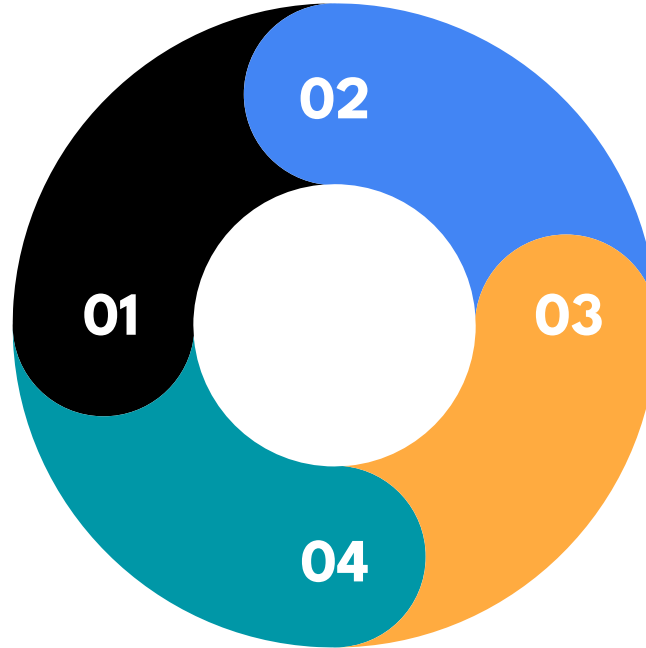
To address this issue, we have developed an AI-powered Healthcare App, utilizing OpenAI.

# Problem Statement

In the current digital age, while health information is widely available, it's often scattered and not personalized.

02

Furthermore, an immediate, personal AI health assistant, which can provide health advice and preventive measures based on symptoms, is missing.

01

03

Individuals often find it challenging to get accurate information about disease symptoms and preventive measures.

04

This lack of personalized advice and the complexity of medical jargon for non-experts make it difficult for individuals to make informed health decisions.

# Our Solution

- Our solution is an AI powered Healthcare App that provides users with reliable health-related information.
- The app leverages OpenAI's LLM, trained using LangChain, to answer queries related to diseases, symptoms, and general health.
- Using sophisticated NLP algorithms, the app can understand a wide range of healthcare related questions and provide relevant advice and information.

# Implementation

- The solution utilizes the OpenAI, LangChain and ChromaDB framework.
- We built our dataset by web scraping 50 articles using BeautifulSoup.
- This dataset, rich in medical literature, trained our model to provide informed advice on a broad range of topics.
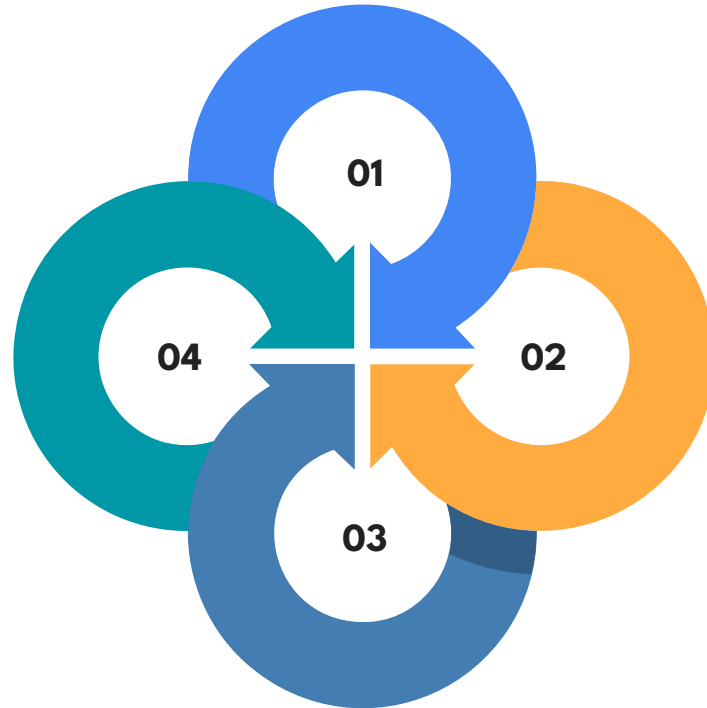- Deployed using streamlit framework

# Key Features

**User-Friendly Interface**: The bot is designed with a user-friendly interface. Users simply type their questions, and the bot provides the answers.

**Medication and Routine Interaction Analysis**: A unique feature of our bot is its ability to analyze the potential interactions between prescribed medications and preventive routines.

**01**

**04**

**02**

**03**

**Personal AI Health Assistant:** Our bot serves as a personal health assistant, offering advice based on the symptoms provided by the user.

**Informed Advice**: Our bot is trained on a wide range of medical literature, allowing it to provide reliable health-related advice.
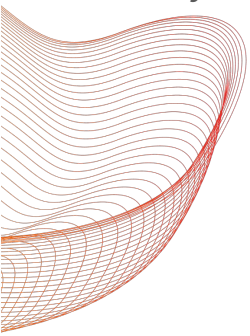
# Business Perspective

**Technology Applicability**: Broad-ranging utility for individuals, healthcare providers, and healthcare companies. Potential to enhance healthcare services and systems.

**Target Market**: Personal health seekers, healthcare institutions, pharmaceutical firms, and elderly populations.

**Value Proposition**: Provides instant, personalized health advice, augments patient care services, and serves as an informative platform for health product promotion.

# Future Development

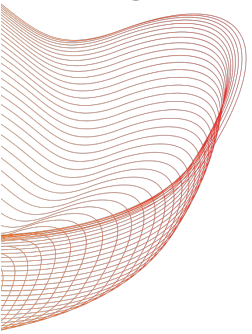**Integration with Wearable Devices:** Enhance personalization by integrating with wearable health devices for real-time tracking and analysis of vital signs and activity levels.

**Expansion of Medical Database:** Broaden our medical database to include a larger spectrum of diseases, medications, and preventive routines, increasing the app's utility, and accuracy.

**Nutrition and Fitness Guidance:** Develop personalized nutrition advice and fitness plans based on user input for a holistic health approach.

Thank you