# Samay Patel

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## 🧠 SKILLS

**Programming Languages**
C,C++,JAVA,PYTHON,HTML,CSS

**ML/AI SKILLS**
Keras, PyTorch, Pandas, RAG, NLP, LLM, AI Agents,

**Soft Skills**
Problem-Solving Skills,Creativity and Innovation,Communication

## 📁 PROJECTS

**RAG Based Personal Placement Assistant,** *Research Paper(Published)* ⧉
Designed a system for automated resume analysis and interview question generation using NLP, offering gap analysis, personalized learning paths, and mock interview simulations to prepare candidates for job roles.

**Agriculture Chatbot KRUSHAK** ⧉
Agriculture chatbot based on Custom dataset using NLP preprocessing and RNN.Also I have integrated Google-Gemini-Pro to provide information that are not present in dataset.

**Map Mind** ⧉
An urban intelligence tool that analyzes walkability in any city area by fetching POIs using OSM Overpass API. It integrates Google's LLM to evaluate accessibility within 15 minutes of walking, and visualizes the data using MapTiler.

**AirSight,** *Air Quality & Emission Analysis* ⧉
A comprehensive geospatial analysis platform for environmental monitoring. AirSight fetches real-time air quality and weather data, maps pollution sources, and visualizes insights like health risk cards, emission impact zones, and sustainability metrics.

## 💼 PROFESSIONAL EXPERIENCE

**AI Engineer,** *Oizom Instruments Pvt. Ltd.*                           01/2025 – 05/2025
Contributed to the integration of AI-powered features into the company's environmental monitoring              Ahmedabad
platform(ENVIZOM). Developed a 24/7 intelligent chatbot for client queries, implemented an insights generator based on past and forecasted 24-hour data, and developed & deploy a geospatial emission analysis module named AirSight, integrated directly into the main dashboard.

**Data Science Intern,** *YBI*                           05/2024 – 06/2024
Built an AI-driven question generation system using Retrieval-Augmented Generation (RAG) and LLMs to automate question generation from uploaded PDFs, improving student preparation for exams or interviews in specific domains. ⧉

**Intern,** *Oizom Instruments Pvt. Ltd.*                           04/2023 – 06/2023
Contributed to an open-source project at Oizom, implementing date-time conversion and CSV upload              Ahmedabad
functionalities to transform text data into charts. Enhanced the system's data handling and user experience through technical optimizations.

## 🎓 EDUCATION

**B.TECH CSE,** *Charusat University*                           2021 – present
CGPA 9.39(Current)                           Anand, India

**XII Science,** *Parth School of Science and Competition*                           2020 – 2021
Score : 85%

## 🏠 ORGANIZATIONS

**Jayso Foundation,** *Volunteer*
Volunteered for the AI for Youth and AI for All initiative, a joint project by Intel and the Government of India, aimed at empowering and educating rural students from aspirational districts about Artificial Intelligence.

## 📜 CERTIFICATES

- BCG - GenAI Job Simulation
- DataBricks Academy Accreditation - Generative AI