

# Varun Sahariya

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## SUMMARY

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Innovative and self-driven full-stack developer specializing in building intelligent, AI-enhanced applications. Proficient in Python, JavaScript, and C++, with hands-on experience developing projects using modern frameworks like React, FastAPI, and Flask. Adept at integrating and deploying complex systems involving Machine Learning, NLP, and third-party APIs such as Google Gemini. Eager to apply a build-first mindset to solve challenging problems.

## TECHNICAL SKILLS

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**Languages:** Python, C++, JavaScript, C

**Frontend:** React, Vite, Tailwind CSS, HTML, CSS

**Backend:** FastAPI, Flask, Express.js, Flask-SocketIO, WebSockets

**Databases:** MongoDB, SQLite

**AI / ML:** Natural Language Processing (NLP), Sentence Transformers, Google Gemini API

**Tools & APIs:** Git, VS Code, Postman, PyQt5, OpenWeatherMap API

## EXPERIENCE

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### AI Voice Agent Developer (Project-Based)

Aug 2025 – Sep 2025

*Lyria Voice Agent*

- Developed and deployed “Lyria,” a full-stack, real-time AI voice assistant from concept to completion.
- Engineered the backend using Python, Flask, and Eventlet to manage bidirectional audio streams with Socket.IO.
- Integrated AssemblyAI (Streaming STT), Google Gemini (Reasoning & Function Calling), and Murf AI (High-Quality TTS).
- Authored advanced system prompts to create distinct AI personas, demonstrating strong prompt engineering skills.
- Solved complex cloud deployment challenges on Render, including dependency conflicts and asynchronous server configuration.

### Python Programming Intern

Aug 2025 – Sep 2025

*Oasis Infobyte*

- Completed a 4-week intensive Python programming internship focused on real-world project experience.
- Developed and delivered four advanced applications using PyQt, Flask, React, SQLite, and external APIs.

## MAIN PROJECTS

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### AI-Powered E-Commerce Product Search System | GitHub Repo

- Built a high-performance product search API with FastAPI and a modern React frontend.
- Developed a hybrid search algorithm combining keyword matching with semantic search using Sentence Transformers.
- Engineered a click-based learning model to personalize search results and implemented dynamic, real-time filtering.

### Full-Stack Chat Application | GitHub Repo

- Engineered a real-time chat application using a Python/Flask backend, SQLite database, and React frontend.
- Implemented public/private rooms, persistent messaging, and file sharing using WebSockets.
- Integrated a conversational AI assistant powered by the Google Gemini API via a custom command.

## MINI PROJECTS & TECHNICAL CHALLENGES

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- **Advanced BMI Calculator:** Built a PyQt desktop application with SQLite persistence and Matplotlib-based trend visualization.
- **Real-Time Weather App:** Developed a GUI application displaying live weather data and a 5-day forecast using the OpenWeatherMap API.
- **Secure Password Generator:** Created a desktop tool to generate strong, customizable passwords with a visual strength indicator.

## LICENSES & CERTIFICATIONS

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- Certificate of Completion – AI Voice Agent Development — Murf AI — Sep 2025
- Design a Machine Learning Solution — Microsoft — Aug 2025
- Intro to Machine Learning — Kaggle — Aug 2025
- Introduction to AI in Azure — Microsoft — Jul 2025
- Code For Bharat Season 2 — United Latino Students Association — Jun 2025
- Software Engineering Job Simulation — Goldman Sachs — Feb 2025