VARUN SAHARIYA

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SUMMARY

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 like Google Gemini. Eager to apply a build-first mindset to solve challenging problems.

TECHNICAL SKILLS

- **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

AI Voice Agent Developer (Project-Based) | Lyria Voice Agent | *Aug 2025 - Sep 2025*

- 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 complex, bidirectional audio streams with Socket.IO for a natural conversational experience.
- Integrated a multi-API stack for core functionality: **AssemblyAI** (Streaming STT), **Google Gemini** (Reasoning & Function Calling), and **Murf AI** (High-Quality TTS).
- Authored advanced system prompts to create distinct AI personas, showcasing skills in **prompt engineering** and controlling LLM behavior.
- Solved complex **cloud deployment** challenges on Render, including deep dependency conflicts and asynchronous server configuration to ensure a stable, production-ready application.

Python Programming Intern | Oasis Infobyte | *Aug 2025 - Sep 2025*

- Completed a 4-week intensive Python programming internship focused on building strong skills through real-world project experience.
- Developed and delivered four advanced applications from scratch, demonstrating proficiency in desktop GUI development (PyQt), API integration, database management (SQLite), and full-stack web architecture (Flask, React).

MAIN PROJECTS

AI-Powered E-Commerce Product Search System | [GitHub Repo](#)

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

Full-Stack Chat Application | [GitHub Repo](#)

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

MINI PROJECTS & TECHNICAL CHALLENGES

- **Advanced BMI Calculator**: Built a user-friendly desktop application with **PyQt** to calculate and track Body Mass Index, featuring data persistence with **SQLite** and historical trend visualization with **Matplotlib**.
- **Real-Time Weather App**: Developed a desktop GUI application that fetches and displays live weather data and a 5-day forecast for any city by integrating the **OpenWeatherMap API**.
- **Secure Password Generator**: Created a desktop application that generates strong, customizable passwords with a visual strength indicator and a one-click copy-to-clipboard feature.

LICENSES & CERTIFICATIONS

- **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*