

Aayush Kumar Gupta

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Summary

Software Engineer experienced in building scalable D2C AI SaaS backend systems with 99% uptime. Proficient in Data Structures and High level System Design.

Work Experience

Prishal.ai — *Backend & Machine Learning Intern*

May 2026 - July 2026 (onsite)

- Collaborated in **Agile team** to design **High-performance B2B SaaS** Reliable systems AI-based call automation platform, emphasizing streaming for **over 12,000 U.S. clients**
- Optimized server architecture of **event driven voice pipeline** using STT, Gen AI and TTS reducing Operational costs on telephonic service by **30%**.
- Deployed on servers, using **Asterisk** maintaining **99.9% uptime** and **Revenue growth by 21%**.

Projects

Tauzand Intelligence — www.tauzand.in

[Live Demo](#)

- Developed a **SaaS D2C AI platform** following a **Client-Server Architecture** with a **Modular Monolithic** backend, serving **1.2K+ active users** and processing **35K+ events calls** in Q1 2026.
- Engineered RAG to **optimize performance and reduce hallucination**. **Mistral Chrome Extension**, implemented Redis caching with 99.9% Uptime and ensuring reliability at scale
- Optimized PostgreSQL queries and trigger, reducing API response time for fast and automated computation. **event based email services, OAuth & JWT authentication** service by **Clerk and Supabase**.

AI Powered Customer Executive

[Live Demo](#)

- Developed AI customer executive using **Mistral APIs** handling streaming audio data using **Deepgram** at low-latency.
- Designed and implemented reusable software components for improved maintainability.

Content Risk Detection System

[Live Demo](#)

- Designed a pipeline for processing and classifying web data, returning real-time confidence scores to detect harmful content for children below 12 years.
- Trained ensemble learning model for classification of harmful content filtering for **dangerous content from website**.

Skills

Languages: Java, Python

Database: MySQL, PostgreSQL

Frameworks : Flask, API Development, Supabase, Postman, CI/CD, Scikit Learn, Pandas, NumPy, Matplotlib, NLTK, Streamlit, Agile

Tool's : Pycharm, Google Collab, Supabase, Power BI, Postman, IntelliJ Idea

Leadership & Achievements

- **Engineering Lead:** Directed a team of 17 interns, overseeing product development and supporting a platform serving 1,200+ users globally.
- **UiPath Student Community(USC) KIIT:** **Core ML** Build Machine Learning Models.
- **Mentor @ GSSoC 2025:** Guided mentees on System Design, Traditional Machine Learning, and Gen AI

Education

Kalinga Institute of Industrial Technology : B.Tech in IT : CGPA: 8.60/10

July 2023 - April 2027

Relevant Coursework: DSA, Operating Systems, Object-Oriented Programming, Database Management Systems, Software Engineering, Probability and Statistics, Discrete Mathematics, SQL, System Design, SDLC