

# Aayush Kumar Gupta

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## Education

**Kalinga Institute of Industrial Technology : B.Tech in IT : CGPA: 8.44/10** *July 2023 - April 2027*

**Relevant Coursework:** DSA, Operating Systems, Object-Oriented Programming, Database Management Systems, Computer Networks, Software Engineering, Probability and Statistics, Discrete Mathematics, Big Data, Artificial Intelligence, SQL, System Design, Database Schema Design, Software Development Life Cycle (SDLC)

## Experience

**Prishal.AI** • *Data Analyst and Machine Learning Intern* *May 2025 - July 2025 (onsite)*

- Collaborated within a six-member cross-functional team in a Scrum lifecycle to design distributed architecture systems, communication protocols, and database structures for an AI-based call automation platform.
- Engineered an event-driven voice pipeline using Asterisk, STT, ML, Gen AI and TTS reducing human involvement by 90%.
- Deployed on VM servers for US based clients, reducing labor costs by 87% and boosting net profit by 21%.

## Projects

**AI-Powered Customer Executive** *React, Next.js, GPT-4o, Deepgram, Clerk, DrizzleDB, HAProxy* [Live Demo](#)

- Developed a full-stack distributed system AI customer executive using GPT-4o and Deepgram for natural conversation in real time.
- Applied SOLID principles and HAProxy load balancing, reduced latency to 150 ms.
- Integrated Clerk authentication, DrizzleDB, and deployed with Vercel CI/CD.

**Emotion Insight for Child Safety** *Python, BeautifulSoup, Scikit-learn, Streamlit* [Live Demo](#)

- Built 8-class emotion classifier using ensemble learning to detect harmful content (fear, anger, shame etc) for child safety, achieving 87% precision and 87.5% F1 score
- Developed ML pipeline with BeautifulSoup for automated scraping and preprocessing to analyze content and return confidence scores for dangerous emotional triggers
- Deployed on Streamlit with real-time filtering, scalable to mobile integration for instant parental safety alerts

**48HoursNews** *React, Tailwind CSS, Clerk, NewsData.io API, Vercel AI SDK* [Live Demo](#)

- Built a multilingual news app showing 48-hour updates across India with Trie-based search.
- Integrated Clerk authentication and rate limiting for secure, scalable API-driven delivery.

## Skills

**Languages:** Python, Java, C++, PLSQL, JavaScript, SQL

**Frameworks:** React.js, Django, Tailwind CSS, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, NLTK, Streamlit, Agile, Scrum, RAD

**Technologies:** Transformers, Natural Language Processing, Machine Learning, Artificial Intelligence, Git, SQL, Postman, Power BI, Excel, Linux, HuggingFace

## Leadership & Achievements

- **ML Member – IoT Labs, KIIT:** Evaluated ML/AI applicants; delivered talk on Computational Intelligence to 700+ attendees.
- **Mentor – GSSoC 2025:** Guided mentees on system design, ML, and GenAI fundamentals.
- **Competitive Programmer:** 320+ problems solved (1966 LeetCode rating, Top 9.7%, 4-star HackerRank).
- **Hackathons:** Stage 2 LEAP Ideathon by Providence India (60k+ participants), Stage 3 K3 Ideathon, Top 5000 HackWithIndia (25k+ teams).