Amit Kumar Kuswaha

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SUMMARY

AI and software engineering undergraduate with hands-on experience in **generative AI, machine learning, IoT systems, and full-stack web applications**. Proven ability to design and deploy scalable, user-focused solutions using modern tools, APIs, and cloud platforms. Strong foundation in **data structures, algorithms, and computer systems**.

EDUCATION

Bachelor of Technology — Electronics and Computer Engineering 2022 – Present
Dronacharya Group of Institutions, Greater Noida
CGPA: 7.38 / 10 (73.8%)

Senior Secondary (Class XII) — Assam Higher Secondary Education Board 2020 – 2022
B. Borooah College, Guwahati
Percentage: 73.2%

High School (Class X) — Assam Board of Secondary Education 2020
Aryan Academy English Medium High School, Guwahati
Percentage: 79.67%

WORK EXPERIENCE

GenAI Intern — AgriDoot (NovosEdge Pvt. Ltd.) Jun 2025 – Aug 2025
- Assisted in the development of **Gyan LLM**, a domain-specific large language model.
- Contributed to the **Gyan Fatafat web scraping module** for collecting, cleaning, and structuring large-scale datasets.
- Supported prompt design, data preprocessing, and validation workflows.
- Collaborated with cross-functional teams to integrate AI components into production pipelines.

PROJECTS

Project A—Multimodal AI Voice Assistant [Link] Jan 2026
- Built a full-stack AI assistant integrating **Llama 3.3 (70B) via Groq** for high-speed, context-aware reasoning.
- Developed real-time voice interaction using **Python, STT, and ElevenLabs TTS**, synchronized with a React-based web dashboard.
- Implemented secure authentication and persistent chat storage using **Supabase** and **PostgreSQL**.
- Enabled multilingual, empathy-focused responses in **English and Hindi**.

GUDPALS—Senior Citizen Engagement Platform [Link] July 2025
- Architected and deployed a **mobile-first web platform** offering live sessions, e-commerce, learning resources, and travel planning for senior citizens.
- Implemented secure authentication using **Clerk** and real-time data management with **Supabase**.
- Optimized performance and scalability through **Vercel-based cloud deployment**.
- Designed a **bilingual (English/Hindi), accessibility-first UI** to improve usability for elderly users.

Instagram Sentiment Analysis System Nov 2024
- Designed and implemented an **NLP-based sentiment analysis pipeline** using Python and machine learning libraries.
- Classified Instagram comments into **positive, negative, and neutral** sentiment categories.
- Analyzed sentiment trends to generate insights for brand perception and customer feedback.

IoT-Based Floor Cleaning Robot (Prototype), May 2023
- Built a **toy car–based floor cleaning prototype** using Arduino, C, and DC motors.
- Implemented basic motor control logic for movement and surface cleaning.
- Strengthened understanding of **robotics, automation, and embedded systems**.
- Presented the project at the college Hackfest **Dron Pratibim b**.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, HTML, CSS
AI/ML: Machine Learning, NLP, LLMs, Prompt Engineering
Web/Cloud: Supabase, Clerk, Vercel
Tools: GitHub, VS Code, Google Colab, MATLAB, Arduino IDE
Core CS: Data Structures & Algorithms, Operating Systems, Computer Networks, OOP

CERTIFICATIONS & ACHIEVEMENTS

- CCNA: Introduction to Networks—Cisco Networking Academy (2025)
- Introduction to Cybersecurity—Cisco Networking Academy (2025)
- Innovation Design & Entrepreneurship (IDE) Bootcamp—IIT Jammu (AICTE, MOE)
- Computer Networks Fundamentals—Udemy
- NSS Volunteer—27th National Youth Festival, Government of India