Amit Kumar Kuswaha

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SUMMARY

Final-year B.Tech undergraduate in Electronics and Computer Engineering with hands-on experience building AI-driven and full-stack applications. Developed a multimodal AI voice assistant using LLMs and real-time speech processing and a cloud-deployed web platform for senior citizens. Strong foundation in data structures, algorithms, OOP, and computer networks, with practical exposure to GenAI, NLP, and IoT systems.

EDUCATION

Bachelor of Technology—Electronics and Computer Engineering | 2022 – Present
Dronacharya Group of Institutions, Greater Noida — Percentage: 74.83%

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 an AI assistant platform integrating **Llama 3.3 (70B) via Groq** for high-speed, context-aware reasoning.
- Developed a real-time voice interaction system using **Python, STT, and ElevenLabs TTS**, synchronized with a React 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
- Designed and developed a comprehensive web-based platform providing live sessions, digital learning resources, e-commerce services, and travel planning for senior citizens.
- Implemented secure user authentication using **Clerk** and real-time data handling with **Supabase**.
- Improved application reliability and scalability through **Vercel-based cloud deployment**.
- Created a **bilingual (English/Hindi), accessibility-focused UI** tailored to the needs of 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 Pratibimb**.

TECHNICAL SKILLS

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

CERTIFICATIONS & ACHIEVEMENTS

- Artificial Intelligence Fundamentals—IBM SkillsBuild (Feb 2026)
- Python Essentials 1 — Cisco Networking Academy (Jan 2026)
- CCNA: Introduction to Networks—Cisco Networking Academy (Oct 2025)
- Introduction to Cybersecurity—Cisco Networking Academy (May 2025)
- Innovation Design & Entrepreneurship (IDE) Bootcamp—IIT Jammu (AICTE, MOE) (Feb 2025)
- NSS Volunteer—27th National Youth Festival, Government of India (Jan 2024)