

# 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

<b>Bachelor of Technology—Electronics and Computer Engineering</b> Dronacharya Group of Institutions, Greater Noida — CGPA: 7.38 / 10	2022 – Present
<b>Senior Secondary (Class XII)—Assam Higher Secondary Education Board</b> B. Borooah College, Guwahati — Percentage: 73.2%	2020–2022
<b>High School (Class X)—Assam Board of Secondary Education</b> Aryan Academy English Medium High School, Guwahati — Percentage: 79.67%	2020

## WORK EXPERIENCE

<b>GenAI Intern — AgriDoot (NovosEdge Pvt. Ltd.)</b>	Jun 2025 – Aug 2025
• Assisted in the development of <b>Gyan LLM</b> , a domain-specific large language model.	
• Contributed to the <b>Gyan Fatafat web scraping module</b> 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

<b>Project A—Multimodal AI Voice Assistant</b> [Link]	Jan 2026
• Built an AI assistant platform integrating <b>Llama 3.3 (70B)</b> via <b>Groq</b> for high-speed, context-aware reasoning.	
• Developed a real-time voice interaction system using <b>Python, STT, and ElevenLabs TTS</b> , synchronized with a React web dashboard.	
• Implemented secure authentication and persistent chat storage using <b>Supabase</b> and <b>PostgreSQL</b> .	
• Enabled multilingual, empathy-focused responses in <b>English and Hindi</b> .	
<b>GUDPALS—Senior Citizen Engagement Platform</b> [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 <b>Clerk</b> and real-time data handling with <b>Supabase</b> .	
• Improved application reliability and scalability through <b>Vercel-based cloud deployment</b> .	
• Created a <b>bilingual (English/Hindi), accessibility-focused UI</b> tailored to the needs of elderly users.	

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

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

## 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)