

ANUSHKA KARMAKAR



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ABOUT ME

Electronics and Communication Engineering student with a passion for software development, AI, and DevOps. Familiar with observability tools and real-world project workflows through academic and personal projects. Curious, driven, and guided by the goal of building meaningful tech that solves real problems and creates positive impact — both in the world and in people's lives.

PROJECTS

AI-Powered Realistic Job Interview Simulation [VIEW ON GITHUB](#)

- Built an AI-powered interview chatbot that simulates real job interviews with multi-round support (HR, technical, behavioral) and dynamic, role-specific questions using NLP.
- Enabled real-time feedback and adaptive questioning, offering performance insights including strengths, weaknesses, and tailored improvement suggestions.
- Integrated speech recognition for voice-based interactions, enhancing user experience and providing a realistic interview environment.

AI Resume Analyzer [LIVE PREVIEW](#)

- Built an AI-powered application that evaluates resumes using NLP and job description matching to identify key skills, gaps, and formatting issues.
- Generates an ATS (Applicant Tracking System) compatibility score and classifies resumes into different readiness levels (e.g., beginner, intermediate, advanced).
- Delivers structured feedback with suggestions to improve visibility and alignment with industry standards through an intuitive user interface.

AutoMaze: Q-Learning-Based Maze-Solving Robot [VIEW ON GITHUB](#)

- Developed a maze-solving robot using Q-learning, trained in Python and deployed on an Arduino UNO with a Q-table for real-time decision-making.
- Designed a Python-based simulator with GUI to visualize and test path optimization before hardware implementation.
- Programmed the robot to interpret sensor inputs, follow optimal paths, and adapt to various maze layouts autonomously.
- Integrated AI with embedded systems, bridging the gap between simulation and physical deployment for real-world performance.

SKILLS

- Programming Languages:** C, C++, Python, JavaScript, TypeScript, MATLAB
- Frontend:** HTML, CSS, JavaScript, React.js, Tailwind CSS, Next.js
- Backend:** Node.js, Express.js, Django, Flask
- Databases & Storage:** MongoDB, SQL, Firebase
- Tools & Platforms:** Git, GitHub, VS Code, Visual Studio, Postman, Excel, WebStorm, Notion
- Soft Skills:** Problem-Solving, Communication, Teamwork, Adaptability, Time Management, Quick Learning

EDUCATION

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| Bachelor of Technology in Electronics and Communication Engineering
- Kalyani Government Engineering College | 2022 – Present |
| Higher Secondary Examination
- Kalyani University Experimental High School – [WBCHSE] | 2019 – 2021
91.6% |
| Secondary Examination
- Naihati Katyayani Girls' High School – [WBBSE] | 2017 – 2019
90% |

ACHIEVEMENTS

- Reliance Scholar (2022–2026):** Awarded a prestigious merit-based scholarship by Reliance Foundation
- Legrand Mentorship Program (2023):** Selected mentee in a program supporting women in STEM

CERTIFICATION

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| Python for Everybody – Coursera University of Michigan Completed Online | VIEW CERTIFICATE |
| Python Data Structures – Coursera University of Michigan Completed Online | VIEW CERTIFICATE |
| Introduction to Programming with MATLAB – Coursera Vanderbilt University Completed Online | VIEW CERTIFICATE |
| Cybersecurity for Everyone – Coursera University of Maryland Completed Online | VIEW CERTIFICATE |