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

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EDUCATION

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

- **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* 📄