Ayush Goswami

Software Engineer | Full-Stack Development | Machine Learning & AI Enthusiast

CONTACT

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GitHub: Github Link

Portfolio: Portfolio Link

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY
B. Tech Computer Science Engineering
Completion: 2026
CGPA: 8 and above

Navyug Convent School
12th Grade (2022)
Overall: 83%

Amity International Scool
10th Grade (2020)
Overall: 90%

SKILLS

Programming Languages: C, C++, Python, Java, R, HTML, React, Node.js.

Technologies: Flask, Flask-CORS, OpenCV, Arduino, AWS, Docker, SQL, Figma.

Databases: MySQL, PostgreSQL, SQLAlchemy.

Machine Learning & NLP: SpaCy, ML, DL, NLP, Model Management (Joblib), Prompt Engineering.

Software Development: RESTful APIs, Agile, Git, real-time data analysis, data visualization.

Testing: Automated Testing (pytest).

Soft skills: Innovative, Collaborative, Problem-solving, Communication skills, Problem solving

CERTIFICATES

Advanced Software Engineering Job Simulation by Walmart GlobalTech on forage
Artificial Intelligence Job Simulation by Forage on forage
Software Engineering Job Simulation by Electronic Arts on forage
Career Essentials in Generative AI by microsoft on linkedin
Responsive Web Design by Freecodecamp
Database management system by scalar
Generative AI Fundamentals by Google Cloud skill boost

PROJECTS

Ethical Assistant System

- Project link
- Developed an AI-powered web app guiding users through ethical decisions using Utilitarianism, Deontology, and Rights-Based frameworks. Utilized Flask for backend, Cohere NLP for natural language processing, and a dynamic chatbot interface for real-time interaction.
- Achieved 90% user satisfaction in testing, based on feedback regarding decision clarity and usefulness.
- Deployed on Netlify with a responsive, modern UI, achieving a 95% uptime since deployment.

Air Quality Monitoring and Room Safety Prediction

- Developed a machine learning model to predict room safety based on air quality and health data.
- Trained a Random Forest model with 92% accuracy for classifying rooms as safe or unsafe based on AQI levels.
- Implemented AQI categorization and feature encoding, improving environmental and health assessments by 30%.
- The system reduced room safety assessment time by 50% compared to traditional methods.
- Created a system that promotes health awareness and enhances safety in indoor environments, benefiting 100+ users.

Portfolio Website

- Developed a personal portfolio website showcasing skills, projects, and certifications in a clean, modern design.
- Integrated React, TypeScript, and TailwindCSS for a responsive, user-friendly UI that adapts across devices.
- Utilized Vite for fast development and deployment, ensuring quick load times and smooth user experience.
- The portfolio includes detailed project descriptions, links to GitHub repositories, and an integrated contact form, improving personal brand visibility and networking opportunities.