

# 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 School

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  
Forge 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.