

AYUSH GOSWAMI

ML Engineer | Python Developer

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EDUCATION

Vellore Institute of Technology – Chennai, B.Tech in Computer Science September 2022 – Present

CGPA: 8.1

Relevant Coursework: Object oriented programming, Data Structures and Algorithm, Database Management Systems, Operating Systems, Computer Networks, AWS, Data Science, Artificial Intelligence

Navyug Convent Sr. Sec. School April 2020 – March 2022

Higher Secondary School Certificate: 83%

Amity International School April 2014 – March 2020

Secondary School Certificate: 90%

CERTIFICATES

- **Machine Learning Specialization** *Stanford University & DeepLearning.AI (Coursera)* ([Certificate](#))
- Solutions Architecture Job Simulation, *AWS APAC (Forage)* ([Certificate](#))
- Advanced Software Engineering Job Simulation, *Walmart USA (Forage)* ([Certificate](#))
- Career Essentials in Generative AI, *Microsoft* ([Certificate](#))
- Artificial Intelligence Job Simulation, *Cognizant (Forage)* ([Certificate](#))
- Database Management System, *Scalar* ([Certificate](#))

SKILLS

Machine Learning (Scikit-learn, Supervised, Unsupervised, Model Evaluation) | Natural Language Processing (NLP, SpaCy, Cohere API) | TensorFlow | PyTorch | SQL | MySQL | PostgreSQL | Python | R | Java | Data Visualization | Pandas | NumPy | OpenCV | FastAPI | Flask | RESTful APIs | Git | AWS | Netlify | Vercel | Figma | Communication | Problem-Solving | Critical Thinking | Time Management | Data Structures and Algorithm | Data Preprocessing | Feature Engineering | Model Optimization | Real-time Inference | Cloud Deployment

PROJECTS

IMNS-AD: Multi-Modal Ensemble Prediction of Alzheimer's Disease (Ongoing)

Developing a multi-modal ML model combining clinical, fMRI, and genetic data for early-stage Alzheimer's detection. Leveraging ensemble learning (CNNs/Transformers + statistical models) to achieve 85%+ AUC, with automated preprocessing and GPU-accelerated training for scalable deployment.

AI-Powered Pneumonia Detection from Chest X-Rays

Built an automated pneumonia detection pipeline using transfer learning and self-attention, achieving 92.14% test accuracy. Deployed with TensorFlow/PyTorch for real-time inference and scalable cloud-based clinical use.

Ethical Assistant System

Created a web-based AI chatbot guiding users through ethical dilemmas using established philosophical frameworks. Integrated Cohere API for advanced NLP, achieving 90% user satisfaction and maintaining 95% uptime post-deployment on Netlify.

Air Quality Monitoring and Room Safety Prediction

Developed a Random Forest model (92% accuracy) to assess room safety based on AQI and health indicators. Reduced safety assessment time by 50% through smart feature engineering and environmental data integration.