Avesh Pathak

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Education

GITAM University **Hyderabad, India**
B.Tech, Computer Science and Engineering *Aug 2022 – May 2026*
CGPA: 8.18/10.0(till 3rd year)

Experience

Amazon ML Summer School
Trainee *Aug 2025 – Present*
○ Participating in intensive ML program covering advanced concepts and production tools.
○ Collaborating with industry experts and peers on real-world ML challenges and solutions.

Hexagon Consultancy Services
AI Intern *Jul 2025 – Present*
○ Developed and optimized AI/ML models for data processing, document analysis, and information retrieval tasks.
○ Built and maintained web-based applications using Python, Flask, and modern frontend tools.
○ Collaborating with cross-functional teams to deliver AI-driven consulting, prototyping and deployment of real-world solutions.

Swecha Telangana
AI Developer Intern *Jun 2025 – Present*
○ Built AI applications for educational and social impact initiatives.Implementing machine learning algorithms and data analysis pipelines
○ Contributing to open-source AI projects and community-driven technology solutions.

Projects

LegalEase AI – Courtroom Intelligence System
○ Developed an AI-driven legal assistant that summarizes legal documents, extracts key clauses, and identifies potential risks, improving document review efficiency by 40%.
○ Implemented an interactive AI chatbot for legal queries, enhancing response accuracy by 35% and reducing manual review errors.
○ Integrated courtroom audio diarization and role labeling to provide comprehensive insights from proceedings, combining speech-to-text NLP pipelines with document analysis for end-to-end legal intelligence.

Face Mask Detection
Alert System
○ Developed a real-time computer vision system using Convolutional Neural Networks (CNNs) to detect mask compliance in public spaces.
○ Implemented an automated alert mechanism to notify authorities when mask violations are detected, enhancing public safety and compliance monitoring.
○ Optimized model accuracy and speed with image preprocessing, augmentation, and TensorFlow/Keras, achieving high detection precision under varied lighting and angles.

Technical Skills

○ **Languages:** Python, C, JavaScript
○ **Web:** HTML, CSS, React, Node.js, Flask, Fast api
○ **AI/ML:** ML, NLP, Deep Learning, LLMs, TensorFlow, Keras, Scikit-learn
○ **Databases/Tools:** MySQL, Git, Google Colab

Certifications

- Deep Learning Specialization — DeepLearning.AI
- Data Structures and Algorithms Specialization — UC San Diego
- Machine Learning with Python – IBM

Leadership & Activities

- Class Representative — GITAM University (2022–Present)
- Member — GITAM Coding Club:Participated in hackathons, coding sessions, and tech meetups
- Volunteer – University Hackathons and Tech Fests: Organized and supported technical events