

Arnav Sharma

LinkedIn
GitHub

Email: arnav06as@gmail.com
Mobile: +91-8630171733

EDUCATION

- Vellore Institute of Technology** Vellore, Tamil Nadu
B.Tech. - Computer Science Engineering; CGPA: 8.88
Aug 2022 – Present
- Cambridge School** Ghaziabad, Uttar Pradesh
CBSE Class 12th; 92%
2022
- Cambridge School** Ghaziabad, Uttar Pradesh
CBSE Class 10th; 95.2%
2020

CERTIFICATIONS

- AWS Certified Cloud Practitioner:** Amazon Web Services - 2024
- Cybersecurity Professional:** Google (Coursera) - In Progress, 2025

EXPERIENCE

- Apollo Tyres** Gurugram, India
Machine Learning Intern
May 2025 – July 2025
 - Advanced CNN Fine-Tuning for Tire Defect Prediction:** Fine-tuned EfficientNet-B4 and MobileNetV3-Large on 15,000+ images, achieving 90%+ accuracy across 7 classes; collaborated with engineering team to deploy predictive tool.
 - Production-Scale ML Pipeline:** Engineered ML pipeline automating maintenance for 500+ images/minute using augmentation and cross-validation, reducing downtime by 15% in simulations.
 - Robust Visualization & Documentation:** Created visualizations (confusion matrices, heatmaps) and documentation, presenting to 5+ stakeholders for seamless adoption.
- Hudson Data** Delhi
Data Analytics Intern
May 2024 – June 2024
 - Financial Data Analysis:** Analyzed 200K+ financial transactions via exploratory data analysis (EDA) and preprocessing; created interactive dashboards visualizing key metrics, delivering actionable insights to 10+ stakeholders.
 - Hybrid Ensemble Model for Predictive Analytics:** Developed XGBoost, Isolation Forest, and LSTM ensemble for fraud/credit risk, attaining 92% accuracy and reducing false positives by 18%.
 - Explainable AI in Agile Environment:** Applied LIME/SHAP for interpretability in agile sprints, enhancing trust and decision-making for cross-functional teams.

PROJECTS

- GitGud - AI Interview Coach (LLMs, RAG):** link - Developed RAG system with semantic embeddings, boosting retrieval accuracy by 30% on 500+ resume-JD pairs; microservices dashboard via FastAPI/LangChain/Pinecone (Beta, 2025).
- Watch Tower - DePIN Uptime Monitoring (Blockchain, WebSockets):** link - Built 5-microservice platform on Solana (65K TPS, \$0.00025 fees) with real-time WebSockets (2024). Tech: Next.js, TypeScript, Bun, Docker.
- Emotion Recognition CNN (Computer Vision):** link - PyTorch CNN on 35K+ images achieving 85% accuracy via EDA/modeling; created a streamlit dashboard (2024). Tech: OpenCV, CUDA.

LEADERSHIP & ACTIVITIES

- Senior Finance Executive, AdMark Club** Vellore Institute of Technology
 - Event Management & Sponsorship:** Led 36-hour hackathon for 200+ participants as judge and coordinator; secured Rs 50,000+ in sponsorships through targeted pitches and negotiations, ensuring seamless event execution.
 - Social Media Engagement:** Created compelling social media content that generated 50K+ views, enhancing club visibility and driving participant registrations by 25%.
 - Team Leadership & Mentorship:** Directed a team of 3 juniors in club operations, providing guidance on tasks.

SKILLS

- Languages:** Python (Advanced), Java, C++, JavaScript, HTML/CSS, SQL
- ML Frameworks:** PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers
- Data Tools:** - Pandas, NumPy, Matplotlib, LangChain, Pinecone
- Web/Backend:** Django REST, FastAPI, Next.js, TypeScript
- Databases & Processing:** PostgreSQL, MongoDB, OCR (PaddleOCR, PyMuPDF), PDF Parsing
- Cloud/DevOps:** AWS, Docker, Kubernetes, Git, CI/CD
- Other:** Agile/Scrum, n8n, Linux, Computer Networks, DSA, Blockchain (Solana)