

NAISHADH VYTLA

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EDUCATION

KL University, Guntur *Jul 2023 – Present*
B.Tech in Electronics and Communication Engineering | CGPA: 8.0

EXPERIENCE

Smart Swift Innovations — Data Science Intern *May 2025 – Jul 2025*

- Built classification and regression models on real-time operational datasets using Python, Scikit-learn, and Pandas, achieving 92% accuracy on the primary prediction task.
- Performed exploratory data analysis (EDA) across 5+ datasets, uncovering feature correlations that improved model performance by approx. 15%; automated data cleaning pipelines, reducing preprocessing time by 40%.

PROJECTS

BrainTumorViT — Brain Tumor Classification Using Vision Transformers *Ongoing*

- Engineered a ViT-B/16-based deep learning classification system for 4-class brain tumor MRI diagnosis (glioma, meningioma, pituitary, no tumor) on a 7,023-image dataset, targeting state-of-the-art accuracy.
- Designed a three-phase training strategy incorporating discriminative learning rates, Stochastic Weight Averaging, and advanced data augmentation (Mixup alpha=0.4, CutMix alpha=1.0), coupled with a custom MLP head (768>512>256>4).
- Integrated a GradCAMViT explainability module to generate visual attention heatmaps, addressing black-box limitations in prior literature; conducted IEEE-standard comparative analysis against 5+ published methods.

AI-Powered Resume Screening Tool [\[Link\]](#) *Jun 2025*

- Developed a privacy-first automated resume screener using LLaMA 3 (via Ollama) and Streamlit, performing on-device NLP-based semantic matching between job descriptions and candidate resumes with zero external data transfer.
- Extracted and parsed resume text from PDFs using PyPDF2; ranked candidates by relevance using cosine similarity scoring, streamlining the screening workflow.

Document-Based Question Answering System (GenAI) [\[Link\]](#) *Jul 2025*

- Built a Retrieval-Augmented Generation (RAG)-based QA system using LLaMA 3, LangChain, and FAISS, enabling users to upload PDF/DOCX files and query content via natural language with sub-second vector-based retrieval.

VISA 24Hrs AI Hackathon Project [\[Live Demo\]](#) *2026*

- Built and deployed a live AI-powered web application during the VISA 24Hrs AI Hackathon at IIT Madras, advancing to the finals among competing teams from across the country.

TECHNICAL SKILLS

Languages: Python, SQL, Java **ML / Deep Learning:** PyTorch, TensorFlow, Scikit-learn, HuggingFace Transformers, timm, OpenCV

GenAI / NLP: LangChain, FAISS, Ollama, LLaMA 3, RAG, Prompt Engineering **Tools:** Git, GitHub, Jupyter, Google Colab, Streamlit

Libraries: Pandas, NumPy, Matplotlib, Seaborn, PyPDF2

CERTIFICATIONS

[OCI AI Foundations Associate](#) | [Summer Analytics 2025 – IIT Guwahati \(Merit Certificate\)](#) | [Altium Global Scholarship \(PCB Design\)](#)

ACHIEVEMENTS

- Finalist — VISA 24Hrs AI Hackathon at IIT Madras'2026, competing against teams from across the country.
- Merit Certificate — Summer Analytics'2025, IIT Guwahati, awarded for top performance in data science program.
- Altium Global Scholarship recipient for excellence in PCB Design.

LEADERSHIP & ACTIVITIES

Co-Lead, Adventure Club — KL SAC, KL University *Aug 2025 – Feb 2026*

- Directed outdoor expeditions and events for 50+ members, managing end-to-end logistics, safety protocols, and team coordination.