PAVAN KUMAR DIRISALA

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OBJECTIVE

Innovative and driven AI/ML developer passionate about transforming data into actionable insights and intelligent applications. Experienced in creating and deploying machine learning and deep learning models, streamlining end-to-end data workflows, and experimenting with emerging technologies to solve complex problems. Dedicated to continuous growth, hands-on learning, and delivering solutions that create measurable impact in real-world scenarios.

EDUCATION

Bachelor of Technology, KL University — Expected 2026
Major in Computer Science and Engineering

Intermediate, Sri Chaitanya Junior College — 2019 - 2021

SKILLS

Technical Skills	Python, Java, C, SQL, Django, FastAPI, Git, Docker
AI/ML Skills	Machine Learning, Deep Learning, NLP, RAG, LLM Integration, Computer Vision
Libraries	PyTorch, Scikit-learn, TensorFlow, Pandas, NumPy, OpenCV, Hugging Face
Cloud Technologies	AWS, Google Cloud, Hugging Face Hub
Soft Skills	Problem-solving, Communication, Creativity, Leadership

ACHIEVEMENTS

- Secured **2nd Place** at **AiroThon 2025 – Agentic AI Hackathon**, organized by Airo Digital Labs, Gurugram.
- Built **FinBot Connect**, a Retrieval-Augmented Generation (RAG) based BFSI chatbot with **personalized banking queries, document Q&A, and secure authentication**, improving customer support efficiency.

PROJECTS

FinBot Connect – AI-Powered BFSI Chatbot (RAG + LLM) — Jun 2025 – Aug 2025

- Designed a Retrieval-Augmented Generation (RAG) chatbot for BFSI using FAISS, SentenceTransformers, and OpenRouter LLMs.
- Integrated with Django (frontend) + FastAPI (backend), enabling personalized banking queries and document-based Q&A.
- Tested on **1,000+ queries** with **85%+ accuracy**; secured **2nd place at AiroThon 2025**.

Brain Tumor MRI Classification (Deep Learning) — Jul 2025

- Built and trained CNN and transfer learning models (**DenseNet121, VGG16**) to classify MRI scans into Glioma, Meningioma, Pituitary, or No Tumor.
- Applied preprocessing, augmentation, and hyperparameter tuning, achieving **95%+ accuracy on test data**.
- Deployed with Streamlit for real-time predictions, enabling user-friendly medical image classification.

CERTIFICATIONS

- Essentials Automation Certification - 2024
- Red Hat Certified Application Developer (EX-183) — Red Hat, 2024
- Career Essentials in Generative AI — Microsoft and LinkedIn
- Amazon Web Services Cloud Practitioner
- Problem Solving through Programming in C — NPTEL