Ganasekhar Kalla | Data Scientist

ganasekharkalla@gmail.com | +91 6304546608

Github: Ganasekhar | Leetcode | Linkedin | Personal-Portfolio

PROFESSIONAL SUMMARY

Data science student with hands-on experience building ML models and working with real datasets. Comfortable with Python, SQL, and deep learning frameworks, I enjoy turning data into insights and tools people can actually use. I like working on problems where the output improves clarity or helps someone make better decisions.

EDUCATION

Electronics and Communication Engineering| NIT NAGALAND CGPA: 7.88 | (Aug '2022 - May '2026)

TECHNICAL SKILLS

- **Programming & Data**: Python, SQL, PySpark, Pandas, NumPy
- **Statistics & Modeling:** Probability, Regression Analysis, Hypothesis Testing, Feature Engineering
- **Machine Learning & AI**: Scikit-learn, TensorFlow, PyTorch, Deep Learning, NLP, Computer Vision
- **Generative AI & LLMs**: LangChain, RAG, FAISS, Llama3 fine-tuning
- **MLOPs & Deployment**: Docker, Git, GitHub, Kafka, Databricks, AWS, CI/CD, Model Deployment
- **Visualization & Analytics:** Power BI, Matplotlib, Seaborn
- **Databases**: MongoDB, PostgreSQL, MySQL

PROJECTS

Real-Time Fraud Detection System(ML | Kafka | Docker | FastAPI | MongoDB)| GitHub

- Built a real-time fraud detection system with Kafka and FastAPI, achieving <2 s latency for faster alerts.
- Addressed class imbalance using SMOTE, improving model precision by 20% on large transaction datasets.
- Containerized the system with Docker and MongoDB + monitoring to support scalable deployment.

Multi-Agentic Data Analytics System(Python | LangGraph | Faiss | RAG | React) | GitHub

- Developed a multi-agent analytics system that automates SQL generation, data preprocessing, and visualization workflows.
- Used DuckDB with FAISS retrieval memory to provide context-aware data lookup & better query responses.
- Fine-tuned LLaMA-3.2-1B as an explainer agent, improving interpretability & reduced analysis time by ~25%.

EXPERIENCE

AI & Machine Learning Intern| IBM SkillsBuild | Virtual | Link (Jun '25 – Jul '25)

- Built a hybrid movie recommendation system combining collaborative and content-based filtering.
- Used BERT with FastAPI backend and React frontend to generate recommendations in real time.
- Explored unsupervised learning methods and applied them during model development and evaluation.

AI TRANSFORMATIVE LEARNING INTERN| Microsoft| Virtual | Link (Feb '25 – Mar '25)

- Built an ATS resume scoring tool and rank predictor using NLP and TF-IDF based similarity scoring.
- Used transformer and embedding techniques during model experimentation and evaluation.

Open-Source Contributor | @Scikit-learn, Braindecode & MNE-Python

- Improved import structure and documentation in Scikit-learn to enhance clarity and maintainability.
- Implemented a dropdown filter and search feature in Braindecode to help users locate deep learning models
- Proposed and updated tutorial improvements in MNE-Python to make onboarding smoother for new users.

ACHIEVEMENTS & CERTIFICATIONS

- Placed in the top 20% in Kaggle's Store Sales Forecasting Challenge for developing robust feature engineering and predictive modeling workflows. **[Kaggle Link]**
- Ranked 266 out of 29,000+ participants in Naukri Codequezt coding challenge. **[Link]**
- Completed IBM Big Data Foundations certification on Hadoop, Spark, and distributed data systems. **[Link]**