LAKSHMI GOWRI MATTAPARTHI

Hyderabad, Telangana • +91-9494434858 • lakshmi.234m@gmail.com • *LinkedIn* • *GitHub* • *Portfolio*

PROFESSIONAL SUMMARY

- Data Engineer & ML Practitioner with experience in AI-powered solutions, data pipelines, and cloud-native architectures.
- Skilled in building scalable data pipelines (batch and streaming), real-time data ingestion, and ML model integration.
- Proficient in GCP (BigQuery, Dataflow, Pub/Sub), Spark, Kafka, and data DevOps practices.
- Currently pursuing M.Tech in AI & ML from BITS Pilani and upskilling in production-grade data engineering tools.
- Passionate about delivering resilient, data-driven solutions aligned with real-world business needs.

SKILLS

- **Languages & Tools:** Python, SQL, Java, Git, REST APIs
- **Machine Learning & AI:** Scikit-learn, TensorFlow, PyTorch, Keras, SVM, CNN, NLP (BERT, GPT, LLaMA), Adversarial ML (learning)
- **MLOps :** MLFlow, CI/CD, Model Monitoring
- **Security & Compliance:** Exploring AI robustness, model lifecycle management
- **Cloud & Big Data:** GCP (BigQuery, Dataflow, Pub/Sub), AWS, Spark, Hadoop, PostgreSQL, Oracle SQL
- **Visualization & Tools:**   ElasticSearch (familiar), Matplotlib, Seaborn, Grafana

WORK EXPERIENCE

Model N – **Associate Software Engineer**   *Aug 2022 – Present*

- Designed and deployed AI enhancements for secure user access validation using ML models in production.
- Increased test coverage for AI modules by 78% through automation frameworks.
- Implemented anomaly detection that reduced operational faults by 550+ instances.
- Supported data ingestion and transformation pipelines with secure API integrations.

Hitachi Vantara - Python Developer Intern   *Feb 2022 – Jun 2022*

- Engineered scalable data pipelines for preprocessing and feature engineering.
- Improved data pipeline performance by 25% with optimized transformations.
- Developed RESTful APIs and visualization dashboards for ML inference and analytics.

PROJECTS

FaceFit AI *link*
- Designed for personalized user identification through facial features.
- Utilizes NumPy for numerical computations and array operations
- Includes a training module to learn from facial images
- Real-time webcam integration for live face detection

Handy Solver *link*
- It's a web-based calculator application that helps users to solve mathematical expressions.
- Provides both Arithmetic operations and advanced mathematical functions.
- Features a clean, user friendly interface for easy calculations.

Fingerspell Reader *link*
- A real-time sign language recognition system using computer vision.
- Helps bridge communication gap between hearing-impaired and non-sign language users
- Uses hand gesture detection to interpret American Sign Language (ASL) fingerspelling

CERTIFICATIONS

- **Data Engineering** — Amazon Web Services ∞
- **Azure AI Fundamentals** — Microsoft ∞
- **Web Development Essentials** — Coursera ∞
- **Machine Learning to Python** — IBM ∞
- **Machine Learning** — Internshala ∞
- **Cloud Computing Basics** — Coursera ∞

EDUCATION

- **M.Tech (AI & ML) | 7.0 CGPA**
  BITS Pilani, Hyderabad
  2023 - present

- **B. Tech (CSE) | 8.9 CGPA**
  BVC Engineering College, Andhra Pradesh
  2018 – 2022

LEADERSHIP & COLLABORATION

- Proactively contributed to architecture decisions in AI modules at Model N
- Actively Collaborate across Dev, QA and DevOps to ensure smooth delivery