

# LAKSHMI GOWRI MATTAPARTHI

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## 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

- |   |  |
|---|--|
| • <b>Data Engineering</b> – Amazon Web Services ∞ | • <b>Machine Learning to Python</b> – IBM ∞  |
| • <b>Azure AI Fundamentals</b> – Microsoft ∞      | • <b>GCP Silver League</b> – ∞               |
| • <b>Web Development Essentials</b> – Coursera ∞  | • <b>Cloud Computing Basics</b> – Coursera ∞ |

## EDUCATION

- |  |   |
|--|---|
| • <b>M.Tech (AI &amp; ML)   7.0 CGPA</b><br>BITS Pilani, Hyderabad<br>2023 - present | • <b>B. Tech (CSE)   8.9 CGPA</b><br>BVC Engineering College, Andhra Pradesh<br>2018 - 2022 |
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## LEADERSHIP & COLLABORATION

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