LAKSHMI GOWRI MATTAPARTHI

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

PROFESSIONAL SUMMARY

- Machine Learning Engineer with strong experience in developing AI-powered solutions, data pipelines, and real-time computer vision applications.
- Skilled in building and deploying ML models, data preprocessing, and NLP techniques.
- Currently pursuing M.Tech in AI & ML from BITS Pilani.
- Adept in Python, data analysis, and ML frameworks like TensorFlow, PyTorch, and Scikit-learn.
- Passionate about transforming business problems into scalable data-driven solutions.

SKILLS

- **Languages & Tools:** Python, SQL, Java
- **Machine Learning & AI:** Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV, CNN, ANN, SVM, KNN, Regression, Time Series
- **Data Analytics & Cloud:** Pandas, NumPy, Matplotlib, Seaborn, GCP, AWS
- **Natural Language Processing:** BERT, GPT, LLaMA, NLTK, Named Entity Recognition, Text Classification
- **Data Engineering:** MySQL, PostgreSQL, Oracle SQL, Grafana
- **Model Deployment:** RESTful APIs, Model Inference APIs
- **Version Control & Testing**: Git, Unit Testing, Integration Testing

WORK EXPERIENCE

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

- Developed AI-driven enhancements for secure user access control and real-time validation using ML.
- Improved test automation for ML modules with a 78% increase in test coverage.
- Enhanced system reliability by identifying and mitigating 550+ potential issues through ML-based anomaly detection.

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

- Designed ML-based data pipelines to automate and accelerate data preprocessing and analysis.
- Improved data processing performance by 25% using optimized feature engineering strategies.
- Built RESTful APIs for ML model inference and visualization dashboards.

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