

LAKSHMI GOWRI MATTAPARTHI

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PROFESSIONAL SUMMARY

- Software Engineer with experience in Full-Stack Development, Machine Learning, and Data Engineering.
- Currently working at Model N as a UI Developer, enhancing security and test coverage.
- Skilled in Python, Java, JavaScript, SQL, and frameworks like React.js, Django, and Flask.
- Expertise in ML, Deep Learning, and Data Analysis with tools like TensorFlow, PyTorch, and Scikit-learn.
- Developed impactful projects in AI, web development, and sign language recognition.
- Certified in AWS, Microsoft Azure, ML, and Cloud Computing, committed to innovation and problem-solving.

SKILLS

- **Programming:** Python, Java, JavaScript, SQL, data structures
- **Machine Learning & AI:** TensorFlow, KNN, SVM, Scikit-learn, PyTorch, Regression etc.
- **Data Analysis & Cloud:** Matplotlib, Seaborn, Pandas, Numpy, GCP, Grafana
- **Natural Language Processing:** Transformer Models (BERT, GPT, LLaMA), Text Classification, Named Entity Recognition (NER), ANN, CNN, Time Series, NLTK
- **Data Engineering:** Feature Engineering, Data Preprocessing, My SQL, PostgreSQL, Oracle SQL
- **Web & API Development:** HTML, CSS, JS, React Js, Django, Restful API Design

WORK EXPERIENCE

Model N – Associate Software Engineer

Aug 2022 – Present

- Working on Platform Development Team as a Full stack developer.
- Working as UI Developer, with integration of User Access Management System with Gateway.
- Fixed 550+ vulnerabilities in the frontend.
- Increased test coverage from 0% to 78% using unit and integration testing frameworks.

Hitachi Vantara - Python Developer Intern

Feb 2022 – Jun 2022

- Developed and optimized ML-driven data pipelines, improving processing speed by 25%.
- Designed and implemented RESTful APIs for model inference and data analytics.
- Achieved 92% in technical assessments covering Python, SQL, and OOP principles.

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

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

EDUCATION

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|--|---|
| • 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 |
| • 12th Class (MPC) 95.1 %
Vidyanidhi Junior College 2018 | • 10th class 9.7 CGPA
St. Mary E.M High School 2016 |