

Lokesh Chowdary Katta

Chicago, IL – 60504.

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[Github](#)

[Portfolio](#)

lokeshchowdary.pl@gmail.com

Engineer Passionate about building Great Things.

Education

Master's in Computer & Information Science

August 2023 – May 2025

Texas Tech University

Bachelor's in Computer Science – Spec in Networking & Security.

July 2019 – May 2023

Vellore Institute of Technology – AP.

Technical Skills

Python, R, SQL, C++, Apache Spark, PySpark, Hive, Hadoop, JavaScript, Flask, Java, Git, PyTorch, Tensorflow, DeepSpeed, XLA, PyProf, CUDA, MATLAB, AWS, GCP, Azure, Airflow, Docker, Kubernetes, GitLab, JIRA, Power BI, Tableau, NoSQL.

Professional Experience

AI Software Development Intern

July 2025 - Present

Resilience, Inc.

- Collaborating with cross-functional teams to develop, review, and refine project plans and software architecture, contributing to both frontend and backend solutions.
- Assisting in Designing and Implementation of Scalable AI Applications.

Projects

F1 2025 Winner Predictor | Machine Learning, Time Series, FastF1, Streamlit

Nov 2024

- Developed an advanced ensemble techniques of Statistics and Machine Learning Models to Predict Formula 1 Race Winners.
- Integrated with Interactive Dashboards and Performance analytics and **improved reliability by over 30 %** compared to baseline models.

FinHealth-Agent | AI, NLP, Flask, Healthcare Data, REST API

Mar 2025

- Designed and Implemented and AI Cost Comparison Platform by using NLP and Large Scale Hospital Price/Insurance Datasets.
- Enabling **Real time Price Comparison for 4000+ Hospitals and 77 Insurance Plans resulting in a 25% improvement** in Cost Saving Recommendation.

Multi-Agent Disease Diagnosis | Multi-Agent Systems, Orchestration, PDF Reporting

December 2024

- Designed a Architectural Structure where AI Agents Collaborate with each other for Disease Diagnosis and discuss and Generate Medical Reports improving Diagnosis Services.
- **Automated End to End Workflows for Patient analysis and reducing manual annotation by over 40 %.**

Sign Language Learning Platform | Computer Vision, Streamlit, Gamification

May 2024

- Developed an interactive sign language learning platform with real-time webcam-based gesture recognition, leveraging MediaPipe/OpenCV for multi-language (ASL, BSL, FSL) support.
- Built modular quiz and challenge systems, enabling easy extension to new sign languages and adaptive difficulty.

Empathetic Agent: Eliminating 911 Wait Times | Conversational AI, Emergency Response, Multi-Agent Systems

Dec 2023

- Engineered a multi-agent conversational system to triage emergency calls and reduce 911 wait times, integrating NLP-driven intent recognition and real-time prioritization for critical incidents.
- **Improved Emergency Efficiency and average response time by over 30 %.**

Publications

Lokesh Chowdary Katta, | Weather Prediction using Artificial Intelligence | **IJSREM – VOL 7 Issue 9**

- Published in the Field of Artificial Intelligence in International Journal of Science and Management. (**Impact Factor – 8.176**)

Achievements & Awards

Student Excellence Award – Texas Tech University.

APR 2025