LIKHITH NAGARALU GURUMURTHY

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Graduation: December 2026 | Available to Start: January 2027

EDUCATION

Northeastern University, Boston, MA September 2024 - December 2026
Master of Science in Information Systems
Coursework: Data Science Methods and Tools, Generative AI for Data Engineering, Big Data, Data Management and Database Design

BNM Institute of Technology (VTU), Bangalore, India August 2019 - May 2023
Bachelor of Engineering in Information Science and Engineering
Coursework: Artificial Intelligence, Data Structures and Algorithms, Operating Systems, Computer Networks & Security, Cloud Computing

PROFESSIONAL EXPERIENCE

IPSER Labs - AI/ML Engineering Intern Texas, USA | January 2026 - June 2026
- Led backend development as the primary engineer, building **6–10** Python/FastAPI APIs that power **8** AI features and serve **5,000+** PostgreSQL records, reducing data retrieval time by **35%**
- Built a reusable LLM service connecting the app to Claude and Ollama with structured outputs, letting the team switch AI models without changing application code
- Automated receipt scanning for **500+** uploads using AWS Textract, image cleanup, and fallback parsing, reaching **94%** extraction accuracy and cutting processing time from **5** to **2** minutes
- Developed a Python recommendation engine that ranks meals on **6** pantry and dietary factors, returning **3-5** suggestions in under **5** seconds with **90%**+ ingredient match and **40%** fewer user corrections

Bharat Electronics Limited - Data Engineer Intern Bangalore, India | July 2023 - December 2023
- Standardized and cleaned **12,000+** aircraft sensor readings using Python and Pandas, transforming diagnostics, temperature, and fault data into analysis-ready datasets for engineering teams
- Modeled and validated MySQL datasets and SQL queries for **12,000+** sensor readings across **3** diagnostic groups, improving data consistency and reliability for downstream aircraft health analysis
- Delivered Power BI dashboards to analyze equipment-health trends, temperature patterns, and fault behavior, helping engineers identify recurring maintenance risks
- Presented data-driven findings to engineering and maintenance teams, supporting preventive maintenance decisions that contributed to a **30%** reduction in unplanned downtime

Compsoft Technologies - Data Analyst Intern Bangalore, India | August 2022 - January 2023
- Combined **25,000+** sales records from **4** sources into **1** validated dataset, reducing recurring data-preparation time by **40%**
- Resolved **2,000+** incomplete, duplicate, and inconsistent records using **5** data transformations and **3** quality checks, reducing reconciliation errors by **30%**
- Created Power BI dashboards across **3** business dimensions and **6** customer lifecycle stages, helping stakeholders track sales performance and data quality
- Streamlined monthly reporting by merging **4** inputs into **1** validated workflow, cutting preparation time from **6** hours to **2** and the reporting cycle from **2** days to **1**

ACADEMIC PROJECTS

FinSight - Secure Enterprise RAG & Evaluation | FastAPI, Chroma, DuckDB, GPT-4o, Cohere, RBAC December 2025
- Architected a FastAPI RAG system that answers financial questions by querying structured data in DuckDB and documents in Chroma, using GPT-4o and Cohere with access control for **6** user roles
- Designed a **120**-question evaluation suite to test answer accuracy and access control, achieving **94%** faithfulness, **90%** context recall, and zero unauthorized document access

Greek Shield - Multi-Agent Risk Analytics | AWS S3, Snowflake, SQL, Cortex, Streamlit August 2025
- Engineered a **6**-layer data pipeline loading **1M+** options trading records from AWS S3 into Snowflake in under **5** minutes, reducing data-preparation time by **70%**
- Implemented **4** Snowflake Cortex AI agents and Streamlit dashboards analyzing all **5** option Greeks to flag concentrated risk

TECHNICAL SKILLS

AI / ML: PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers, Deep Learning, NLP, Model Training, Feature Engineering, Model Evaluation
GenAI / Agents: LLMs, RAG, LangChain, Agentic AI, Prompt Engineering, Claude, Ollama, GPT-4o, Cohere, Chroma, Snowflake Cortex, Guardrails
Data / Databases: SQL, PostgreSQL, MySQL, Snowflake, BigQuery, DuckDB, Spark, PySpark, Airflow, dbt, Pandas
Cloud / Backend / Viz: Python, FastAPI, REST APIs, AWS S3, AWS Textract, Docker, Git, Power BI, Streamlit, Matplotlib, Jira

CERTIFICATIONS

AWS Certified Machine Learning Engineer - Associate June 2026
Salesforce Certified AI Associate January 2025