Jeevith Doddalingegowda Rama

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EDUCATION

University of North Carolina at Charlotte — Expected May 2027
Master of Science in Computer Science

Northeastern University, Boston — January 2025 – May 2025
Master of Science in Data Science

Nitte University, Karnataka, India — 2020 - 2024
Bachelor of Information Science and Technology

TECHNICAL SKILLS

Languages: Python, Java, SQL, R, C++, Node.js, JavaScript, PHP
AI/ML: LangChain, LangGraph, LangSmith, TensorFlow, PyTorch, Scikit-learn, RAG, FAISS, Chroma, Groq
Cloud/DevOps: Docker, Kubernetes, Apache Spark, Hadoop, PySpark, AWS
Databases: PostgreSQL, MySQL, MongoDB, Vector Databases
Tools: Git, Maven, REST APIs, Spring Boot, Tableau, Power BI

PROJECTS

Multi-Agent LLM System with LangGraph — Fall 2025
LangGraph, LangSmith, FAISS, Groq API, Docker, PostgreSQL

- Built intelligent agent orchestration system using LangGraph for workflow automation and state management.
- Implemented RAG pipeline with FAISS vector storage and conversational memory for context-aware responses.
- Integrated LangSmith tracing for debugging and Groq API (llama-3.1-8b-instant) for sub-second LLM inference.
- Deployed containerized app with Docker and PostgreSQL for conversation persistence and vector embeddings.

Distributed Data Processing Pipeline — Fall 2025
Apache Spark, Hadoop MapReduce, PySpark

- Built scalable data pipelines using Apache Spark and Hadoop MapReduce for big data analytics.
- Implemented containerized microservices with Docker for distributed computing tasks.
- Optimized PostgreSQL queries and applied Jaccard Similarity for data deduplication and retrieval.

Melanoma Detection Using Deep Learning — Spring 2024
Published in IEEE Xplore — Best Paper Award

- Developed CNN-based system to detect melanoma from dermoscopic images with 94% accuracy.
- Conducted model tuning, data augmentation, and medical image analysis to optimize performance.

Customer Purchase Behavior Prediction — Spring 2025
Scikit-learn, Random Forest, Logistic Regression, Pandas, NumPy, Matplotlib

- Built predictive model using Random Forest and Logistic Regression to identify customer purchase intent.
- Improved predictive accuracy by 15% through feature engineering and cross-validation.

EXPERIENCE

Data Scientist Intern — March 2024 – November 2024
FundMyCrop, Karnataka, India

- Built time-series forecasting models using TensorFlow and ARIMA for anomaly detection in agritech data.
- Performed feature engineering and EDA to support predictive models, improving pipeline efficiency.

Digital Lead, Google Developer Groups — January 2025 – March 2025
Northeastern University, Boston

- Coordinated tech workshops and info sessions for 100+ students, streamlining communication strategies.

Undergraduate Teaching Assistant — March 2023 – January 2024
Nitte University

- Mentored students in Deep Learning, leading discussions and supporting lab sessions.