

LOKESH EEDARA

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EDUCATION

Eastern Kentucky University

Master's in Computer Science

Richmond, KY

Aug 2024 – Dec 2025

- **Concentration:** Artificial Intelligence and Data Science
- **GPA:** 4.0
- **Course Work:** AI & ML, Big Data, Software Engineering & Agile Development, Data Visualization.

WORK EXPERIENCE

Eastern Kentucky University

Research Assistant

Jan 2025 – Present

- Built & deployed AI-driven backends (FastAPI + Docker) with Gemini and Ollama LLMs for sales roleplay and student advising.
- **Implemented STT/TTS pipelines** for seamless voice-enabled conversations and analytics.
- **Collaborated with faculty and graduate researchers**, contributing to a **\$5,000 win at EKU's 2025 Scholars Tank**.
- **Delivered scalable, cloud-hosted prototypes** (Render, Docker) with real-world applications in education and sales.

Graduate Assistant

Jan 2025 – Present

- Assisted faculty in teaching **iOS mobile app development** and guided students with labs.
- Maintained and set up labs across Ubuntu, Linux Mint, Windows, and macOS, while configuring and managing Cisco switches and routers to support hands-on learning.
- **Automated lab environment setup scripts and provided technical support for 50+ students**, improving efficiency and reducing setup time.

Slash Mark

Java Backend Intern

Feb 2024 – May 2024

- Engineered a modular Hospital Management System using **Spring Boot, MySQL, and REST APIs**.
- Implemented **role-based authentication and data security** for patient and staff records.
- Automated deployment with **Docker, GitHub Actions, and AWS EC2** for high availability.

BlackBucks

Full Stack Developer Intern

May 2024 – Aug 2024

- Built a **React.js frontend** and **Spring Boot backend** for course and quiz management.
- Designed secure **REST APIs with JWT authentication**.
- Deployed on **AWS (EC2 + RDS) with Docker** for scalability.

PROJECTS

Big E Sales Coach App

- Designed a backend with **FastAPI** integrating the **Gemini API** to enable real-time AI-driven sales conversations.
- Added **speech-to-text and text-to-speech pipelines** for interactive roleplay simulations.
- Deployed on **Render** for scalable cloud hosting with **GitHub CI/CD** and Postman-based testing.

AI Student Advising Chatbot

- Built an AI-powered **advising assistant** using **Ollama LLMs** and FastAPI for personalized student guidance.
- Containerized with **Docker** to ensure portability and smooth deployment.
- Delivered a lightweight, scalable prototype supporting **intelligent academic advising workflows**.

Underwater Image Quality Assessment

- Applied **Python + ML (SVR)** for no-reference underwater image quality prediction.
- Built and benchmarked a **240-image dataset** with automated feature extraction.
- Developed the **UEIQM metric**, outperforming existing quality assessment methods.

SKILLS

- **Programming & Frameworks:** Java, J2EE, Python (AI/ML/DS), C, R, JavaScript, HTML, CSS, Spring Boot, Hibernate, React.js
- **Databases & APIs:** MySQL, PostgreSQL, MongoDB, SQL, RESTful APIs, LLM APIs
- **Tools & Platforms:** Git, GitHub, Docker, Kubernetes, AWS, Azure, Render, Google Cloud, Jupyter, Visual Studio Code
- **Methodologies & Others:** Agile, Data Structures & Algorithms, Application Deployment, Cloud Services, Microsoft Office

AWARDS

- **Winner – EKU Scholars Tank 2025** – Secured **\$5,000 prize** for developing the **Big E Sales Coach App**, an AI-driven sales roleplay platform.