Mohammed Rayyan Uddin Ahmed

+1 201 212 2502 | rayyan9290@gmail.com | Linkedin | Github

Education

Northeastern University Sep 2025 - May 2027
Master of Science in Computer Science *GPA: 3.8/4.0*

Osmania University June 2025
Bachelor of Engineering in Computer Science and Engineering *GPA: 8/10*

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Machine Learning, Natural Language Processing, Computer Vision, Deep Learning, Data Mining

Technical Skills

Languages: Python, C++, C, JavaScript, TypeScript, SQL
Technologies: Pytorch, PostgreSQL, AWS, Docker, Kubernetes, Linux, Bash
Machine Learning: Deep Learning, CNN, LLM, VLM, RAG
Professional Skills: Research & Analysis, Communication, Team Collaboration, Leadership

Experience

Research Assistant | *Institute of Experiential AI, Northeastern* Jan 2026 – May 2026

- Worked with Bangor Savings Bank, to automate their data quality checks across 200+ MSSQL tables saving the bank 100+ hours of manual analysis. Collected the issues their teams reported to scope what the pipelines needed to catch.
- Designed and owned the data and schema validation pipelines in Apache Airflow and Great Expectations. Used Claude Code for AI-assisted development.
- Used OpenAI LLMs to generate validation rules making a scalable pipeline, so new tables could be covered without writing a new script for each. Integrated a human-in-the-loop for the generated data expectations before starting a new pipeline which can run on multiple schedules (daily, weekly).
- Ran knowledge-transfer sessions and pipeline design discussions with the bank's team, and the bank integrated the pipelines into its data process.

Software Engineering Intern | *AppSeed Technologies* Feb 2025 – July 2025

- Built an employee management dashboard in React for onboarding new client companies: multi-page forms, search across the dashboard, and state management, all connected to the backend.
- Containerized and deployed backend services on AWS EC2 using Docker, connected to the front end.

Chief Co-ordinator | *Google Developer Groups on Campus MJCET* Sept 2023 – June 2025

- Planned and Organized successful campaigns across the campus, training more than 300+ students across Generative AI and Google Cloud
- Coordinated with faculty and industry professionals and expanded campus participation through strong operational leadership; received the Google Cloud Facilitator Award.

Projects

Research on Steering Sycophancy in LLMs | *Python, PyTorch, Qwen2.5-0.5B*

- Replicating published findings on LLM sycophancy, the tendency of models to agree with users even when the user is wrong, on Qwen2.5-0.5B.
- Injected steering vectors in the model's hidden activations changing how the model behaves without retraining it.
- Tested whether steering away from sycophancy breaks the model's reasoning and other capabilities by comparing steered and unsteered outputs.

Certifications

- AWS Certified Machine Learning Associate, Feb 2026
- AWS Certified Cloud Practitioner, March 2025