

Anudeep Nayak

Available Immediately

github.com/Anudeep-Nayak | 303-269-9785 | anna5868@colorado.edu | [Linkedin.com/Anudeep-Nayak/](https://www.linkedin.com/Anudeep-Nayak/)

PROFESSIONAL SUMMARY

Data Science MS candidate with software engineering experience at GE Healthcare, combining AI/ML expertise and full-stack development skills. Proficient in building production applications using Java, Python, and cloud technologies.

EDUCATION

MS in Data Science

University of Colorado Boulder

August 2023 - May 2025

GPA 3.93

B. Tech in Computer Science and Engineering

Manipal Institute of Technology

August 2018 - June 2022

PROFESSIONAL EXPERIENCE

Software Engineer

GE Healthcare

July 2022 - August 2023

Bangalore, India

- Led the end-to-end development of over 20 features using **Java**, **Vaadin**, **REST API**, and **SQL**, improving product functionality and efficiency.
- Successfully employed **NYMI APIs** collaborating with the client, a system to authenticate supply chain data entries, reducing time to authenticate the signature by over **80%**.
- Resolved **40+** bugs within a year to ensure system stability and seamless operation. Collaborative team effort in bug resolution reduced downtime by over **20%**.
- Played a key role in deployment, version control and code reviews, resolved **critical bugs** promptly to ensure **zero downtime** and updated relevant documentation to maintain accuracy and support future deployments.

Software Engineering Intern

GE Renewable Energy

January 2022 - June 2022

Bangalore, India

- Designed and implemented a modernized user interface using **Angular 11** from Angular 6 using **HTML5**, **CSS** and **Typescript**, completing over **12 user stories** in span of **6 months**.
- Built a model that categorizes incoming inconsistent data into the right categories using **fuzzy logic** with **98% accuracy**, reducing data inconsistency in system and saving resource cost to fix it.
- Helped the team with **code cleanup** and **unit testing**, resulting in SonarQube Metrics for **coverage** going up from **45%** to **80%**, **duplication** decreasing from **10%** to **5%**.
- Developed and designed a ratings page to capture **NPS** as a **KPI** index. The redesign increased the number of people giving ratings by **10%**.

PROJECT EXPERIENCE

AniTA network (AI TA)

University of Colorado Boulder

- Built AI Teaching Assistant web app using **Django** frontend, deployed on **GCP** with **Docker** containerization for scalability
- Integrated **Claude API (LLM)** with **RAG** for auto-grading and stored assessment data in **ArangoDB** for network analysis
- Applied **Louvain** clustering and **Jaccard** similarity to detect grading inconsistencies and student mistake patterns

Dota 2 chatbot

University of Colorado Boulder

- Engineered game-specific chatbot with **OpenAI GPT-4 LLM** and custom **RAG** pipeline for player query support
- Leveraged **IBM Cloud** infrastructure to deploy and scale the chatbot service for consistent performance
- Achieved **95%** accuracy for factual game queries and **80%** for contextual questions through optimized prompt engineering

Resume Classification

GE Renewable Energy

- Developed resume categorization system using **KNN** algorithm and **scikit-learn** with custom **NLP** for keyword extraction
- Implemented data engineering techniques for text preprocessing, feature extraction, and dimensionality reduction
- Won first place at GE Renewable intern hackathon with **83%** classification accuracy, demonstrating practical ML application

SKILLS

Data Science and AI:

Scikit-learn, PyTorch, TensorFlow, LLMs, NLP, RAG, Pandas, NumPy, Matplotlib

Software Development:

Java, C/C++, JavaScript, TypeScript, REST APIs, Spring Boot, Angular, React

Database & Data Systems:

SQL, NoSQL, AQL, ArangoDB, Big Data Architecture, Network Analysis

Cloud & DevOps:

Google Cloud Platform, Docker, Containerization, Microservices, Git, CI/CD

Project Management & Tools:

Agile, Scrum, Confluence, GitHub, Asana

CERTIFICATES

- **Enterprise Design Thinking – Practitioner**
- **Team Essentials for AI**
- **R Programming and Tidyverse Specialization**

IBM

IBM

University of Colorado Boulder