Anudeep Nayak

Available Immediately

EDUCATION

MS in Data Science   August 2023 - May 2025
University of Colorado Boulder   GPA 3.93

B. Tech in Computer Science and Engineering   August 2018 - June 2022
Manipal Institute of Technology

PROFESSIONAL EXPERIENCE

Software Engineer   July 2022 - August 2023
GE Healthcare   Bangalore, India
- Led the end-to-end development of over 20 features using **Java**, **Vaadin**, **REST API**, and **NoSQL** (**MongoDB**), improving product and deployed it on **Azure** for functionality and efficiency
- Integrated **NYMI APIs** collaborating with the customer, 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   January 2022 - June 2022
GE Renewable Energy   Bangalore, India
- Designed a modernized user interface using **Angular 11** from Angular 6 using **HTML5**, **CSS** and **Typescript**, deployed it on **AWS** completing over **12 user stories** in span of **6 months**
- Engineered a model that categorizes incoming inconsistent data into the right categories using **fuzzy logic** in **Python** with **98% accuracy**, reducing data inconsistency in system
- Improved code quality by **code cleanup** and **unit testing**, resulting in SonarQube Metrics for **coverage** going up from **45%** to **80%**, **duplication** decreasing from **10%** to **5%**
- Developed a ratings page to capture **NPS** as a **KPI** index. The redesign increased the number of customers giving ratings by **10%**

PROJECT EXPERIENCE

AniTA network (AI TA)   University of Colorado Boulder
- A AI Teaching Assistant web app using **Django**, deployed on **Google Cloud Platform (GCP)** with **Docker containerization**
- Integrated **Claude API** (**LLM**)with **RAG** for auto-grading and stored assessment data in **ArangoDB** for network analysis
- mplemented **Redis** for caching and **Kafka** for real-time message streaming to handle concurrent grading requests efficiently

Clearhead (ADHD Todo App)   Personal Project
- Built intelligent task management system in **React native** and behavioral analytics to optimize productivity for ADHD users
- Implemented **random forest** to analyze user patterns and provide personalized task prioritization recommendations
- Developing data-driven features including time estimation models and focus pattern analysis to improve task completion rates

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
- A resume categorization system using **KNN** algorithm and **scikit-learn** with custom **Natural Language Processing (NLP)**
- Won first place at GE Renewable intern hackathon with **83%** classification accuracy, demonstrating practical ML application

GRE Vocab Builder   Manipal Institute of Technology
- A website that shows flashcards to expand vocabulary for GRE tests built with **React**
- Implemented **spaced repetition algorithm** to optimize learning efficiency and retention rates

SKILLS

Data Science and AI: Scikit-learn, PyTorch, TensorFlow, LLMs , NLP, RAG, Pandas, NumPy, Python, Kubernetes
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, Cassandra
Cloud & DevOps: Containerization, Microservices, Git, CI/CD
Project Management & Tools: Agile, Scrum, Confluence, GitHub, Asana

CERTIFICATES

- **Enterprise Design Thinking – Practitioner**   IBM
- **Team Essentials for AI**   IBM
- **R Programming and Tidyverse Specialization**   University of Colorado Boulder