Anudeep Nayak

Available Immediately

EDUCATION

MS in Data Science August 2023 - May 2025 GPA 3.93

University of Colorado Boulder

August 2018 - June 2022

B. Tech in Computer Science and Engineering

Manipal Institute of Technology

PROFESSIONAL EXPERIENCE

Software Engineer GE Healthcare

July 2022 - August 2023

Bangalore, India

- Analyzed supply chain datasets and implemented authentication APIs, reducing processing time by 80% through statistical
- Built automated data processing pipelines for 20+ features using SQL and REST APIs, improving overall system performance
- Resolved 40+ bugs annually using systematic debugging and CI/CD tools, improving system stability and reducing downtime by 20%

Software Engineering Intern

January 2022 - June 2022

GE Renewable Energy

Bangalore, India

- Developed machine learning classification model in Python achieving 98% accuracy for automated data categorization and
- Implemented A/B testing framework for NPS analytics, increasing customer feedback collection by 10% through data-driven UX optimization
- Enhanced data quality metrics through statistical testing, increasing coverage from 45% to 80% and reducing duplication by

PROJECT EXPERIENCE

AniTA network (AI TA)

University of Colorado Boulder

- Built ML-powered grading system using LLMs and RAG, achieving 90% accuracy correlation with human graders
- Implemented network analysis with clustering algorithms (Louvain, Jaccard similarity) to detect inconsistencies
- Deployed scalable ML pipeline on GCP with Redis caching and Kafka streaming for real-time inference

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

Audio Emotion Analysis

University of Colorado Boulder

- Built end-to-end ML pipeline for speech-to-text conversion and emotional sentiment analysis using deep learning models
- Integrated OpenAI API for speech-to-text conversion and implemented neural network classifier for emotion detection
- Achieved 80% accuracy in emotion classification using neural networks and feature extraction from audio spectrograms

Resume Classification

GE Renewable Energy

- Built automated classification system using KNN, scikit-learn, and NLP feature extraction (TF-IDF, n-grams)
- Won 1st place at GE hackathon with 83% classification accuracy through hyperparameter tuning and cross-validation

Cinecypher

University of Colorado Boulder

- Developed content-based filtering using LSI, TF-IDF vectorization, and cosine similarity on 10K+ movie dataset
- Conducted **hypothesis testing** confirming significant correlation (p < 0.05) between movie runtime and revenue

Data 2 Chatbot

University of Colorado Boulder

- Engineered NLP chatbot using OpenAI GPT-4 and custom RAG pipeline achieving 95% accuracy for factual game queries
- Deployed scalable solution on **IBM Cloud** with optimized prompt engineering for contextual question handling

Machine Learning and Analytics: Python, Scikit-learn, TensorFlow, PyTorch, Statistical Analysis, Hypothesis Testing,

A/B Testing, Predictive Modeling, Classification, Regression, Clustering, Feature Engineering SQL, R, Pandas, NumPy, Data Mining, Data Visualization, Tableau, Power BI, ETL Pipelines,

Statistical Modeling, Time Series Analysis, Graph analytics

Python, Java, JavaScript, Git, Docker, Kubernetes, AWS, GCP, Azure, REST APIs, CI/CD **Programming & Tools: Specialized:** NLP, LLMs, RAG, Deep Learning, Neural Networks, Big Data, NoSQL (MongoDB)

CERTIFICATES

Data Sciencet:

- Team Essentials for AI
- **IBM**
- R Programming and Tidyverse Specialization

University of Colorado Boulder