

# ANJANA NALLANAGULA

Denver, CO | [anjana.nallanagula@gmail.com](mailto:anjana.nallanagula@gmail.com) | +1 3039943532 | [www.linkedin.com/in/anjana-nallanagula/](https://www.linkedin.com/in/anjana-nallanagula/) | [GitHub](#)

Master's candidate in Computer Science with a strong background in software engineering, focused on building scalable software solutions and training ML models. Proficient in Python, AWS, and CI/CD tools, with a commitment to continuous learning.

## EDUCATION

### UNIVERSITY OF COLORADO DENVER

Master's in Computer Science

Cumulative GPA: 4.0/4.0

Relevant Coursework: Artificial Intelligence, Natural Language Processing, Machine Learning, Big Data Science

Denver, CO

Expected May 2026

### SRM UNIVERSITY AP

Bachelor of Technology in Computer Science Engineering

Cumulative GPA: 3.7/4.0

Relevant Coursework: Data Structures, Algorithms, Operating Systems, OOPs programming, Distributed Systems

Guntur, India

Jul 2019 - Jun 2023

## WORK EXPERIENCE

### JPMORGAN CHASE

Software Engineer

Hyderabad, India

Jun 2023 – Jul 2024

- Developed Python ETLs to load transactional data into SQL tables from multiple sources via REST APIs, which reduced manual data transformation efforts by 40%.
- Engineered and migrated 20+ SQL views and indices across MS SQL databases to support schema evolution and scaling, while also lowering data retrieval time by 30% by storing data as JSON objects in AWS S3 buckets.
- Deployed end-to-end forecasting pipelines using DevOps tools like Git, Jenkins and Bitbucket, improving forecast accuracy by 10% by automating model training with Apache Airflow for real-time hourly predictions.
- Managed Kubernetes clusters to ensure high availability of a critical volume data dashboard containing critical and optimized REST API - SQL integrations to improve data reliability and reduce latency by 25%.

### JPMORGAN CHASE

Software Engineering Intern

Hyderabad, India

Feb 2023 – Jun 2023

- Built time-series models using Facebook Prophet algorithm, performing EDA and parameter tuning to predict volume peaks for 25 channels, utilizing AWS S3, Sage Maker, and CloudFormation to create an MLOps pipeline.
- Integrated the AWS S3 Boto3 SDK to plot a volume data graph and designed a REST API to upload it to an S3 bucket, increasing the model's performance by 20% through parameter optimization.
- Implemented Controller-Service-Data model architecture in Spring Boot to transfer data between MS SQL database and AWS S3, which minimized the data transfer time between the application modules by 42%.
- Containerized a Python application using Docker and exported it as an AWS ECR image, which optimized memory utilization and enabled its coupling with other microservices.

## SKILLS

**Programming Languages:** Python, C, HTML, CSS, JavaScript, Matlab

**Databases:** SQL (Microsoft SQL Server, PostgreSQL, MySQL), NoSQL (MongoDB)

**Cloud Certifications:** AWS Certified Developer - Associate

**Frameworks:** Flask, REST API, pytest (unit and integration testing), Spring Boot, Apache Airflow

**Tools:** Jupyter Notebook, PyCharm, Git, Bitbucket, Postman, Jenkins, Docker, Kubernetes, Power BI, Linux, VSCode, IntelliJ

**Machine Learning:** PyTorch, TensorFlow, Keras, NumPy, Pandas, Scikit-Learn, Matplotlib

## PROJECTS

### CONTEXTUAL-BASED PRODUCT DESCRIPTION GENERATOR

[GitHub](#)

NLP & Gen AI

- Fine-tuned LLM to utilize users' product reviews as context to generate a coherent new product description based on their sentiment scores using NLP and Gen AI techniques like BERT, RNN, LSTM, and T5 models.

### TOURISM RECOMMENDATION SYSTEM

[GitHub](#)

Data Science

- Created a content-based recommendation system that uses the Geoapify Location API, Pandas, Tkinter, and folium modules to extract user's location and suggest places based on their preferences with 85% accuracy.