

Aditya More

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🌐 LinkedIn 🐙 GitHub 🌐 My Tech Portfolio

Education

M.S. Computer Science – Data Science & Informatics Jan 2024 – Dec 2025
Clemson University Clemson, SC

Coursework: Machine Learning, Deep Learning, Design and Analysis of Algorithms, DBMS, Cloud Computing

B.E. Computer Science and Engineering Aug 2017 – Jul 2021
D. Y. Patil College of Engineering and Technology Kolhapur, India

Experience

Clemson University Aug 2024 – Dec 2025
Graduate Student Hourly – Data Science Clemson, SC

- Designed and developed Jupyter Notebook-based labs and assignments for a graduate-level data science class
- Automated grading and evaluation pipelines using Python and nbgrader, reducing manual grading effort
- Maintained course infrastructure (notebooks, quizzes, grading workflows), debugging issues in a live environment to ensure reliability

Amdocs Oct 2021 – Dec 2022
Software Test Engineer Pune, India

- Performed end-to-end, regression, and API testing for enterprise-scale telecom systems serving AT&T
- Designed test cases and validation strategies for new feature releases based on product requirements
- Automated test workflows using Postman and proprietary tools, improving testing efficiency and coverage

Projects

Skynet – AQI Prediction System (2025 NASA Space Apps Challenge) Sept 2025 – Nov 2025

🐍 Python ⚙️ scikit-learn 📊 pandas 🚀 NumPy

- Built end-to-end ML pipeline to forecast AQI levels using multi-source data from NASA TEMPO, OpenAQ, weather, and traffic APIs
- Developed data ingestion and preprocessing workflows to integrate environmental, meteorological, and traffic datasets and engineer predictive features
- Trained ML models to capture temporal and spatial patterns impacting air quality

Movie Recommendation Engine Sept 2024 – Dec 2024

🐍 Python 📊 pandas 🚀 NumPy ⚙️ scikit-learn ⚙️ SciPy 🔥 PyTorch 🍷 Flask 🗄️ PostgreSQL 🐳 Docker

- Built end-to-end recommendation system on 26M+ ratings (270K users, 45K movies) by integrating multi-source data (MovieLens, TMDB, IMDB) via ETL pipeline into optimized sparse representations (155M+ non-zero elements) for efficient computation
- Implemented ML models including content-based filtering (TF-IDF), collaborative filtering, matrix factorization (FunkSVD), and neural collaborative filtering (PyTorch)
- Developed custom FunkSVD model achieving RMSE 0.76, improving accuracy by ~21% over baseline methods

AI Security & Adversarial Machine Learning

🔒 Adversarial ML 🗣️ LLMs 👁️ Computer Vision 🛡️ AI Security 🐍 Python

- Explored adversarial attack techniques across computer vision and large language models, including data poisoning and adversarial prompting
- Conducted experiments on model behavior and robustness, including monocular depth estimation systems and LLM response patterns
- Developed a lightweight evaluation framework to analyze LLM responses to malicious prompts based on latency, refusal behavior, and attack success rates

Skills

Programming:	Python, C++, SQL
Machine Learning:	scikit-learn, PyTorch, TensorFlow
Data & Visualization:	pandas, NumPy, matplotlib, seaborn
Tools & Infrastructure:	AWS, Git, Docker, Jupyter
Core Areas:	Machine Learning, Deep Learning, Computer Vision, LLMs, MLOps