

# ADITYA CHILLA

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## SUMMARY

Data Scientist/ML Engineer with 2+ years of experience developing and deploying Predictive, Machine Learning, Generative AI, LLMs and Forecasting models across multiple industries.

## EXPERIENCE

### Data Scientist

Mar 2024 to Jul 2025

Philadelphia, PA

#### ChaseTech Solz

- Built and deployed **ML models** to **classify** patient enrollment and **forecast** clinical trial site performance using **Python, PySpark, SQL, and AWS**, improving operational reliability and reducing project delays for a biotech client.
- Designed interactive **dashboards** using **PowerBI** to monitor clinical KPIs (patient enrollment, site performance) through **exploratory data analysis, and Feature Engineering** across 50+ sites, helping with quick decision-making speed.
- Deployed **AI/ML** models using **Docker and Kubernetes** to **automate** patient data validation, enabling real-time monitoring and reducing manual processing.
- Partnered with **cross-functional** teams to **automate** model **monitoring** and **quality** checks, improving **pipeline reliability** and ensuring consistent **model accuracy** in production.

### Data Scientist

Sep 2023 to Dec 2023

Rochester, NY

#### Avangrid – Iberdrola Group

- Assessed utility pole damage patterns caused by osprey nests, using **SQL, Python, Feature Engineering** and **Databricks** to develop a **classification model**, achieving 69% **accuracy**, which outperformed traditional **spatial autocorrelation** models.
- Engineered and deployed an interactive **Tableau dashboard** to visualize power outage trends, enhancing monitoring efficiency by 30% and enabling quick operational response.

### Graduate Research Assistant

May 2023 to Sep 2023

Rochester, NY

#### University of Rochester Medical Center – Dept. of Pediatrics

- Analyzed rat **retina imaging data** using **OpenCV** and **statistical analysis** to automate early-stage detection of vascular patterns, improving **pattern classification** accuracy and supporting research on Retinopathy of Prematurity.
- Trained **Siamese neural network** model using **PyTorch** to **classify** vascular **patterns** in mouse retina **images**, achieving 82% **model accuracy** and significantly reducing manual image review time.

### Machine Learning Engineer Intern

Jun 2021 to Jul 2021

Hyderabad, India

#### Phoenix Global Pvt Ltd

- Built **predictive models** using **KNIME** tool and **K-Means clustering** with **CRISP-DM** methodology to evaluate liver cancer severity and patient risk levels, achieving 89% **accuracy** in **forecasting** outcomes and improving prognosis assessment.

## PROJECTS

### CITI-BIKE Stations Tracking & Inventory Optimization

- Implemented an **end-to-end forecasting** pipeline on **Databricks** using **PySpark, MLflow, and FB-Prophet** to forecast and predict bike station demand, availability and rental patterns, achieving 79% accuracy and improving inventory planning.

### European Political Tweet Classification

- Developed an end-to-end **NLP pipeline** to **classify** multilingual political tweets using **regex-based** text cleaning, **TF-IDF** feature extraction, and **LinearSVC**, achieving 75% accuracy and performing topic modeling with **LDA/NMF**.

### Detection of Shilling Attacks in Recommender Systems

- Implemented RDMA and DegSim **detection methods** for **shilling attacks** in **recommender systems**, achieving 93% **accuracy** with **Random Forest** while leading a four-member **research** team and publishing findings in a peer-reviewed journal.

## EDUCATION

### University of Rochester | GPA: 3.5/4

Sep 2022 to Dec 2023

Rochester, NY

Master of Science: Data Science

### Gandhi Institute of Technology and Management (GITAM) | GPA - 8.51/10

Jun 2018 to Apr 2022

Visakhapatnam, India

Bachelor of Technology in Computer Science

## SKILLS

**Programming:** Python, C++, Java, C, Deep Learning, Data Mining, Statistics, Linux/Unix, LLMs.

**Frameworks:** Tensorflow, Scipy, Data Structures, Hadoop, AWS, GCP, MLFlows, OpenCV, MLOps, Databricks, Agile.

**Data Science and Machine Learning:** Time Series Forecasting, A/B testing, Hypothesis Testing, NLP, Predictive Modelling, AI