

# Amrithesh Kuraria

📍 New York, USA

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## EDUCATION

State University of New York at Buffalo, Buffalo, NY

Aug 2024 - Dec 2025

Master of Science, Computer Science, GPA: 3.6/4

Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV), Bhopal, India

Aug 2017 - Jul 2021

Bachelor of Engineering, Computer Science, GPA: 7.7/10

## PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS)

Oct 2021 – Aug 2024

System Engineer

- Engineered a scalable ETL pipeline using **Apache Airflow**, **SQL**, and **Power BI**, automating data processing and reducing report generation time by **70%**.
- Automated workflows with **Python**, cutting manual effort by **30%** and enhancing efficiency.
- Integrated **AWS Lambda** for serverless computing, optimizing costs by **30%**.
- Optimized system performance, reducing downtime by **15%**.
- Performed **12+ comprehensive vulnerability** assessment of client facing application, each resolving over 600 vulnerabilities.
- Conducted UAT for a client-facing application, including creating and overseeing **50 test cases**.
- Built and deployed **RESTful APIs** with Flask and FastAPI, improving response times by 30%.
- Monitored and maintained **server performance**, ensuring 99.9% uptime for applications.

## PROJECTS

Interactive Web Application for Hypothesis Testing and Machine learning Analysis

- Created a real-time analytical platform using Python Streamlit, efficiently processing over 2.5 million entries from the NeurIPS dataset and enabling instant data visualization.
- Designed an interactive interface supporting **real-time model execution** (SVM, ANOVA, logistic regression) and **CRUD operations**, reducing analysis time by 35% and increasing user engagement through button-triggered actions.

Earning Prediction Model

- Deployed a **Random Forest Classifier** to predict income levels, achieving **89.6% accuracy**.
- Optimized performance by **data processing**, **feature engineering** and **hyperparameter tuning**.
- Conducted **exploratory data analysis** and visualized Findings using **Matplotlib** to enhance decision-making.

Expense Tracker Web App

- Engineered a **full-stack** expense tracking app with user authentication, enabling users to manage income/expenses and view category-wise summaries.
- Crafted UI using **Next.js** and **TailwindCSS**; integrated charts for visualizing monthly spending patterns.
- Built RESTful APIs with **Node.js** and **Express**, and utilized **MongoDB** for efficient data storage and retrieval.

Cloud-Based BI Dashboard for SP 500 Stock Analysis using AWS & Power BI

- Designed and implemented a cloud-based data pipeline using **AWS S3**, **Glue**, and **Athena** to analyze 500+ U.S. company stock records.
- Automated data cataloging with AWS Glue Crawlers and enabled SQL-based querying in Athena, reducing manual processing time by 80%.
- Delivered a BI solution that supports near real-time insights and interactive reporting for financial data analysis.

## TECHNICAL SKILLS

- Technologies:** AWS, Docker, Kubernetes, CI/CD, MongoDB, Express, Apache Kafka, Git, Jira, Machine Learning.
- Programming Language:** Python, Java, JavaScript, C++, Typescript, HTML, CSS
- Frameworks:** Flask, Django, Nodejs, Spring boot, Reactjs, Numpy, Pandas.
- Core:** Object-Oriented Design Solution, Best Practices, Technical Documentation, SDLC, DSA.

## CERTIFICATION

- AWS Cloud Practitioner Essentials** - Amazon Web Services