

Nagamedha Sakhamuri

AI/ML, Data Science, Analytics & SWE — Python • SQL • AI/ML • Cloud • Dashboards
Turning Data into Impactful Insights

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Summary

Data-driven professional with 4.5+ years of IT experience, bringing a unique blend of technical execution and business insight — from building API-driven data pipelines and automation solutions to creating dashboards and machine learning models that turn data into impactful insights.

Education

Georgia State University

Master of Science in Computer Science, GPA: 4.13/4.0

Aug 2024 – Dec 2025

Atlanta, GA

R.V.R. & J.C. College of Engineering

Bachelor of Technology in Computer Science, GPA: 3.73/4.0

Jul 2015 – May 2019

Guntur, India

Experience

Georgia State University

Graduate Teaching Assistant

Aug 2025 – Dec 2025

Atlanta, GA

- **Mentored** over 200 students in Database Systems and Discrete Mathematics, providing feedback on data-centric projects and clarifying complex concepts.

Randstad

Data Science Intern

May 2025 – Aug 2025

Atlanta, GA

- Developed automated ETL pipelines by fetching reports via APIs (IVANTI, Bright Pattern), cleaning and transforming data with Google Apps Script, and loading to BigQuery.
- Queried KPIs and built dynamic, filterable dashboards in Looker Studio, achieving 100% automation in reporting and eliminating manual process errors.
- Partnered with business teams to align data insights with operational decisions, significantly improving team efficiency and data accessibility.

Georgia State University

Graduate Teaching Assistant

Aug 2024 – May 2025

Atlanta, GA

HCLTech

Lead Engineer – RPA

Feb 2023 – Sep 2023

Chennai, India

- Developed automation bots that reduced manual errors by 90% and saved an estimated 5 FTEs for APAC clients.
- Designed and deployed a reusable Taskbot for Eclipse login, adopted by all team members to eliminate redundant development and testing efforts.

Tata Consultancy Services (Client: Citi Bank)

Systems Engineer

Jul 2019 – Feb 2023

Hyderabad & Kolkata, India

- Saved over 30+ FTEs across multiple projects by designing and maintaining scalable bots for governance, data quality reviews, and system monitoring.
- **Led** the critical migration of the entire bot portfolio from Automation Anywhere v11 to the modern A360 platform while training junior developers.
- Delivered a flagship Change Review bot that cut processing time by over 66% and a Data Quality solution that reduced manual reviews by 96%.

Projects

- **Serverless Data Pipeline** – Engineered a serverless data extraction pipeline on AWS using S3, SQS, Dockerized Lambda, and DynamoDB, reducing data processing time from hours to seconds and cutting manual effort by 90%.
- **Secure Federated Learning** – Developed a robust federated learning system in Python and PyTorch that detected and mitigated malicious client attacks, achieving 98.52% accuracy in a secure, distributed environment.
- **Applied Machine Learning** – Built a comprehensive data analysis solution using Scikit-learn, MLP, and Random Forest models to classify data and estimate missing values, attaining 100% accuracy on multiple classification tasks.
- Other notable projects include: *E-commerce Content Classification*, *Smart Sentiment Analytics*, and an *IoT Traffic Alert System*.
- For more projects & detailed information, please visit my GitHub profile: github.com/Nagamedha.

Technical Skills

- **Languages:** Python, SQL, Java, JavaScript, VBScript
- **Data & BI Tools:** BigQuery, Looker Studio, Google Workspace, Excel (Macros)
- **Automation:** Automation Anywhere (v11, A360), UiPath, Xceptor
- **Platforms & DevOps:** AWS, GCP, Git, Jenkins, ServiceNow, JIRA
- **Methodologies:** Agile-Scrum, API Integration, End-to-End Automation Lifecycle

Certifications

[Automation Anywhere A360 Master](#), [Xceptor](#), [Supervised ML](#), [Python for DS & ML](#), & Full list is on my [LinkedIn](#).

Leadership & Awards

- **Stanford University Innovation Fellow** – Selected for a **global leadership** program by Stanford's d.school to lead Design Thinking workshops and drive student innovation projects.
- **Star of the Month (HCL & TCS)** – Awarded at both companies for project **ownership**, innovation, and dedication.