

# Manish Kolla

Atlanta, Georgia

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## EDUCATION AND HONORS

**Georgia State University (Honors College)** Atlanta, GA

May 2025

Bachelor of Science in Computer Science, Certificate in Data Science (GPA: 3.98)

**Awards:** President's List (5), Dean's List (2), Undergraduate Research Award Nominee

**Relevant Coursework:** Data Mining, AI, ML, Database Systems, Software Engineering, Linear Algebra, Data Structures and Algorithms

**Campus Involvement:** Indian Student Organization (President), Mathematical Association of America, Associating Computing for Machinery

## WORK EXPERIENCE

**Research Analyst/ Data Scientist** [Profile](#)

September 2022- Present

*Evidence Based Cybersecurity Research Group (EBCS), Atlanta, GA*

- Building web automation frameworks with Selenium and Chrome/Tor drivers, enhancing scraping efficiency by 70% and accuracy to 90%, while extracting data into relational databases and validating results using SQL queries.
- Leveraging Machine Learning, Deep Learning, and NLP to analyze data patterns and trained neural networks to predict emerging threats, using virtual machines for malware protection and advanced cloud clusters for better computing abilities.
- Leading a team of 6 data scientists, presenting findings to sponsors, fostering collaboration, and ensuring project success.

**Mathematics Tutor** [Profile](#)

January 2022- Present

*Department of Mathematics and Statistics, GSU, Atlanta, GA*

- Teaching Linear Algebra and Calculus to classes of 15-20 students, clarifying difficult topics and addressing individual math questions.
- Collaborating with professors during lectures, proctoring exams, and organizing quizzes in their absence.
- Engaging with professors to identify challenging topics, led group study sessions, and tutored over 150+ students, earning the "Best Tutor Award" for Fall 2023.

## INTERNSHIP EXPERIENCE

**Data Science / Machine Learning Intern**

May 2024- August 2024

*Automatic Data Processing (ADP), Alpharetta, GA*

- Developed and deployed a full-stack Generative AI application using Flask, integrated with AWS services (S3, Lambda, DynamoDB, API gateway) and OpenAI GPT models, implementing hyperparameter tuning for optimized inference latency and response quality.
- Conducted in-depth analysis using metrics like ROUGE, BLEU, Levenshtein distance, and Cosine similarity to optimize prompt performance.
- Actively managed CI/CD workflows using Jenkins, Splunk, and Postman to ensure seamless application deployment.

**Information Technology Intern**

June 2023- August 2023

*Lavner Education, Sandy Springs, GA*

- Maintained computer hardware and managed inventory, ensuring optimal performance and timely troubleshooting.
- Instructed and graded Python, C, Machine Learning, and AI assignments for a class of 50 middle/high school students.
- Debugged code performed backups and clean-ups and provided rapid solutions to HQ for efficient workflow.

## TECHNICAL SKILLS

**Programming Languages:** Python | R | C | JavaScript | HTML | CSS | SQL (MySQL, NoSQL)

**Programming Concepts:** Generative AI | Data Mining | Natural Language Processing (NLP) | Machine Learning (ML) | Deep Learning | Predictive Analytics | Web Scraping | Web Automation | TensorFlow | Neural Networks | RESTful API | Django | Selenium | BeautifulSoup

**Operating/Cloud Systems:** Windows | Linux | Ubuntu | AWS | Google Cloud | Virtual Environments | Remote Linux Servers

**Certifications:** Google Data Analytics Certificate | Google Project Management Certificate | AWS Fundamentals | Databricks Generative AI Engineering

**Management Skills:** Agile Project Management | Scrum Management | Risk Management | Asana | Jira | Budgeting and Procurement

**Deployment/Productivity Tools:** Postman | Jenkins | Splunk | Databricks | Tableau | Big Query | Google Firebase | Microsoft Suite | MariaDB | WordPress

## PROJECTS

Project Title: [CareerWide](#)

Developed and deployed an AI-driven platform using AWS and GenAI to match students with recruiters, automating the recruitment process. The platform provides resume insights to boost candidate visibility and streamlines recruiter searches with advanced filters and an AI chatbot.

Project Title: [Legal AI](#)

This research leverages multilayer embeddings and CRAG to enhance legal chatbot retrieval, bridging complex legal texts with AI-driven precision. It lays the foundation for an advanced agentic RAG application, paving the way for domain-specific chatbots in U.S. law.

Project Title: [Airline Data Analysis](#)

Analyzed airport delays using Data Mining and Machine Learning to identify delay patterns and causes, including unusual air route behaviors like early departures and late arrivals.

Project Title: [Movie Genre Recognition from Posters](#)

Created a CNN-based system for classifying movie genres from posters, applying techniques like one-hot encoding and image normalization. Compared performance with models such as LeNet, AlexNet, VGG, and ResNet-50.