

Ajay Addada

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EDUCATION

New Jersey Institute of Technology

Newark, New Jersey, USA

Master of Science in Computer Science(GPA: 3.8)

2024 - 2026

TECHNICAL SKILLS

Programming: Python, R, SQL, Java, C++

Visualization: Power BI, Tableau, Looker, Excel (Pivot, Power Query, VLOOKUP)

Databases and Cloud: MySQL, Oracle, Snowflake, Azure Synapse, AWS Redshift

Analytics and Modeling: Regression, Classification, Forecasting, Hypothesis Testing

Big Data and AI: Databricks, Dataiku, PySpark, TensorFlow, RAG, LLMs, Deep Learning

Tools and Workflow: Alteryx, ETL Pipelines, Jupyter, Git, dbt

Soft Skills: Data Storytelling, Stakeholder Communication, Problem Solving, Cross-functional Collaboration

PROFESSIONAL SUMMARY

- Data Analyst with experience transforming complex datasets into actionable insights using SQL, Python, Power BI, and Tableau. Skilled in data cleaning, visualization, and predictive modeling to support strategic business decisions. Passionate about solving real-world problems through analytics, automation, and AI-driven data solutions.

WORK EXPERIENCE

Student Office Assistant

New Jersey Institute of Technology/ part-time

Mar 2025 - Present

- Streamlined administrative reporting using Excel and Access, maintaining over 1,000+ academic and operational records.
- Created automated spreadsheet workflows, improving accuracy and efficiency by 15%.
- Supported office operations with data-driven tracking systems for event planning and documentation.

Data Analyst

GeekBull Consulting, Hyderabad, India

2023 - 2024

- Collected, cleaned, and analyzed large datasets using Python (Pandas, NumPy) and SQL, improving reporting accuracy by 22%.
- Designed and automated Power BI dashboards for client performance tracking, reducing manual reporting time by 40%.
- Built predictive regression models to identify customer churn patterns, resulting in a 15% improvement in client retention.
- Conducted A/B testing and exploratory analysis to guide product optimization and marketing campaigns.
- Partnered with business teams to translate objectives into analytical solutions, using storytelling dashboards to communicate results.

PROJECTS

- **Retrieval-Augmented Generation(RAG) Chatbot** - Python, Streamlit, Ollama, FAISS Vector DB
 - Built an intelligent chatbot capable of reading and answering questions from uploaded documents using Retrieval-Augmented Generation (RAG).
 - **Real-world Use Case:** Designed for organizations to automate policy lookup, customer support, and internal knowledge retrieval in healthcare, education, and research sectors.
- **Real-Time Object Detection with YOLOv8** - Python, OpenCV, Ultralytics YOLOv8
 - Developed a real-time computer vision pipeline to detect and label objects via webcam feeds.
 - **Real-world Use Case:** Applied for security surveillance, traffic monitoring, and warehouse automation to track goods and prevent safety hazards.
- **Deepfake Detection System** - PyTorch, Transformers, Gradio UI
 - Created a deep learning model to classify images as real or manipulated deepfakes with more than 90% accuracy.
 - **Real-world Use Case:** Enhances digital media verification, cybersecurity, and fraud prevention for organizations handling public media.

CERTIFICATIONS AND ACTIVITIES

- **MOOCs:** Blockchain and its Applications - 2022
- **Volunteer** at New Jersey Institute of Technology for 2024 NJ Science Olympiad - Jan 12th 2024
- Continuous learning in AI-driven analytics and cloud-based data pipelines