

# SRAVAN PERISETTY

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## EDUCATION

University at Buffalo, The State University of New York

Jan 2023 - May 2024

Master of Professional Sciences Data Science and Applications (GPA 3.6/4.0)

National Institute of Technology, Durgapur Bachelor of Technology

Jul 2018 - May 2022

## PROFESSIONAL EXPERIENCE

SUNY ONEONTA – Research Data Analyst

Jan 2025 - present

- Conduct federal (IPEDS) and state (NYSED) reporting under supervision, ensuring 100% compliance with institutional and regulatory requirements while maintaining data integrity across multiple reporting cycles.
- Optimize and modify Veera Jobs and PL/SQL queries, improving data extraction efficiency by 30%, transforming and exporting large datasets from Oracle databases into Excel for reporting, pivot analysis, trend evaluation and business decision making.
- Develop interactive Power BI dashboards, enhancing data accessibility by 40%, integrating key metrics on student enrollment, retention, graduation rates, and academic performance to drive data-informed decision-making.
- Apply machine learning models to analyze student demographics, major migration trends, and academic performance patterns, leveraging Python, statistics, and deep learning methodologies.
- Manage ad-hoc data requests and institutional research projects, analyzing thousands of records to identify trends in student demographics, major migration, employment, and internships, providing actionable insights that support strategic initiatives.

REVELEC AUTOMOTIVE - Data Analyst

Jun 2021- Dec2022

- Engineered data pipelines using Python (pandas, NumPy, OpenCV) for real-time anomaly detection in manufacturing processes, reducing issue resolution time by 15%.
- Designed Tableau dashboards to visualize operational insights, integrating machine learning models for predictive analytics.
- Implemented deep learning models (CNNs, PyTorch) to analyze sensor data and detect patterns, enhancing predictive maintenance strategies.
- Automated data structuring and validation workflows using Python, ensuring seamless data handling and integration into cloud-based solutions.
- Maintained version control of all code and models using Git to track changes and improve collaboration.

## PROJECTS

AWS ETL pipeline and Dashboard for crypto.

Jun 2024

- Designed an ETL pipeline with AWS Glue to process real-time cryptocurrency data from APIs into Amazon S3, accelerating data processing time by 40% and improving data accuracy by 25%, while deploying AWS Lambda and EventBridge to automate updates, reducing latency from 4 hours to 1 hour.
- Developed Predictive models for crypto trend forecasting, leading to a 30% improvement in prediction accuracy, while integrating an interactive Tableau dashboard that increased user engagement by 40% and reduced data retrieval time by 35% through real-time insights

AI-Powered Intruder Detection for Home Security

Aug 2024

- Implemented a real-time intruder detection system using OpenCV and PyTorch, achieving a 35% improvement in detection accuracy while reducing false positive rates by 25%, ensuring enhanced home security automation.
- Deployed the model on AWS cloud infrastructure, leveraging AWS Lambda and S3 to optimize real-time processing, reducing inference time by 40% compared to traditional on-premises solutions.
- Integrated a Power BI dashboard for live security monitoring, enabling instant guided alerts and improving incident response time by 50%, while processing over 1 million frames per day for real-time threat analysis.

AI-Powered Job Application Assistant

Sept 2024

- Built an AI-Powered Job Application Assistant using LangChain, NLP, GroqCloud, and ChromaDB, enhancing the efficiency of job outreach by reducing email preparation time by 50% for users.
- Integrated a robust deployment pipeline using Docker for containerization and GitHub Actions for continuous integration, achieving a 90% reduction in deployment time, ensuring quick updates and consistent performance.

## CERTIFICATIONS

- [AWS - Certified Cloud Practitioner](#)
- [AWS - Certified Solutions Architect Associate](#)

Mar 2024

May 2024

## SKILLS

Programming Languages: Python, R, C Programming, VBA

Cloud: AWS, Azure, Google Cloud

Databases & Architecture: MySQL, Oracle, Postgres, Amazon DynamoDB, Redshift, RDS, Data Lake, Data Warehouse

Data Science: Numpy, Pandas, Tensor-flow, OpenCV, Scikit learn, Keras, Pytorch, Transformers, Hugging Face, LangChain

Data Visualization: Tableau, Power BI, AWS Quicksight

Tools & Other: Git, Visual Studio, PyCharm, MS Office, CNNs, Model training and fine tuning, Database Management, version control, Statistical Analysis, Troubleshooting