

# Bindu Sree Kavuru

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## EDUCATION

**Master of Science in Data Science** | GPA: 3.2/4.0  
University at Buffalo, Buffalo, NY, USA

August 2023 – May 2025

**Bachelor of Technology in Computer Science and Engineering**  
Malla Reddy Engineering College for Women, Hyderabad, India

June 2017 – June 2021

## TECHNICAL SKILLS

**Languages** : Python, SQL, R, Java, PLSQL, C, C++, HTML, CSS

**Frameworks & Libraries** : Pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, PyTorch, CountVectorizer, cuDF, Dask-cuDF, RAPIDS

**Data Visualization** : Tableau, Power BI, Plotly, Streamlit

**Databases** : MySQL, Oracle, MongoDB, SQLite, DynamoDB, Microsoft SQL Server

**Tools & Platforms** : Git, Jupyter, RStudio, AWS Data Pipeline, CUDA, Databricks, Docker

## PROFESSIONAL EXPERIENCE

**Graduate Grading Assistant – Applications of Data Science** | University at Buffalo, NY

January 2025 - May 2025

- Graded assignments and case studies focused on real-world data science applications across multiple industries.
- Provided feedback on Python, SQL, and data visualization tasks, supporting 100+ graduate students.
- Assisted in updating course materials involving Pandas, Tableau, and machine learning concepts.

**Application Analyst** | Accenture Pvt. Ltd.

December 2022 – January 2023

- Spearheaded migration of enterprise data platform to PCF, increasing processing speed by 30% and reducing infrastructure cost by 15%.
- Automated legacy data pipelines and integrated 20+ GitHub repositories, accelerating deployment cycles by 40%.
- Developed Python and SQL-based automation scripts, eliminating over 500 hours of manual work annually.

**Associate Application Developer** | Accenture Pvt. Ltd.

September 2021 – November 2022

- Supported development of high-performance ETL pipelines and optimized complex SQL queries for large-scale datasets.
- Facilitated seamless data ingestion and integration for multi-team collaboration and analytics delivery.
- Contributed to Python-based application development and unit testing, improving code reliability and performance.

## PROJECTS

**Buffalo Smart Crime Analysis System** | Streamlit, PostgreSQL, Python, Tableau, Pandas

January 2025 – April 2025

- Developed a real-time crime dashboard using Streamlit and PostgreSQL, enabling direct SQL queries and improving data access efficiency by 40%.
- Automated data refresh using a Python ETL pipeline, reducing manual update time by 60% and ensuring daily accuracy.
- Designed Tableau dashboards (map, pie chart, heatmap, annual trend views), enhancing pattern visibility and location-based insights by 50%.

**cuEV Analytics: GPU-Accelerated Electric Vehicle Insights** | RAPIDS cuDF, Dask, Python, CUDA, Plotly, Pandas

April 2023

- Engineered a GPU-accelerated ETL pipeline processing over 250K+ EV records, achieving 8–10x faster performance than traditional Pandas workflows.
- Enabled real-time filtering and dynamic aggregation, reducing ETL runtime by 85%.

**Restaurant Review Sentiment Analysis Web App** | Flask, Python, NLP, TensorFlow, Keras, CountVectorizer

February 2021

- Designed and deployed an end-to-end Flask web app for real-time sentiment analysis with over 85% accuracy.
- Implemented NLP preprocessing and trained an Artificial Neural Network (ANN) model on Zomato review datasets.
- Delivered a user-friendly dashboard for sentiment predictions, enhancing feedback interpretation and UX.

**Medi Camp: Health Camp Notification System** | HTML, JavaScript, Python, Pandas, Matplotlib

June 2019

- Developed a web platform that connected 1,000+ underserved users to free medical services, increasing access by 40%.
- Integrated multilingual notifications and optimized engagement analytics, improving attendance by 20%.

**Smart Vehicle Accident Detection System** | Microcontroller(LPC2148), GSM/GPS, Embedded C, Sensors

February 2018

- Built an IoT-based alert system reducing emergency response time by 60% through real-time GPS tracking.
- Integrated IR, fire, and eye-blink sensors for 75%+ improved hazard detection, with manual override to cut false positives by 40%.
- Deployed analytics dashboards on Google Cloud to visualize incident data and enhance road safety monitoring capabilities.

## CERTIFICATIONS

**Oracle Certified Associate: Java SE 8 Programmer**

**Oracle Cloud Infrastructure (OCI): Foundations 2021**

**Google Professional Certificate: IT Automation with Python**

**Cisco Certified Network Associate (CCNA)**