

# Prerna Reddy Ganga

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## Objective

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Graduate student in Data Science with proven experience in data analysis, academic research, and ethical computing. Passionate about transforming data into meaningful insights and contributing to fairness and transparency within academic institutions.

## Education

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**University at Buffalo, SUNY**, Buffalo, NY

*Aug 2024 – May 2026*

Master of Professional Studies in Data Science and Applications

SGPA: 3.917 / 4.0

CGPA: 3.792/4.0

**Osmania University**, Hyderabad, India

*Aug 2020 – May 2024*

Bachelor of Technology in Computer Science and Engineering

Graduated with Distinction

## Professional Experience

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**Library Collection Maintenance Student Assistant**, University at Buffalo

*Apr 2025 – Present*

- Maintain and audit library catalogs through physical inventory and data record updates.
- Provide administrative support, ensuring system accuracy and user resource accessibility.

**Research Intern**, University of South Alabama

*Jan 2024 – May 2024*

- Co-authored a chapter on AI-aerospace convergence in the context of Industry 6.0.
- Led data analysis and contributed over 60% of the research development and writing.

**Application Developer Intern**, Accenture, Bengaluru

*Jun 2023 – Jul 2023*

- Conducted QA testing and tracked defects using agile methodologies.
- Prepared detailed documentation for debugging and development teams.

**Research Intern**, DRDO, Hyderabad

*May 2023 – Jun 2023*

- Simulated secure data communication models using MATLAB.
- Delivered classified documentation under secure research protocols.

**Cybersecurity Intern**, IIT Roorkee

*May 2022 – Jul 2022*

- Researched network security principles and vulnerability modeling.

**App Development Intern**, IIT Bhubaneswar

*May 2022 – Jun 2022*

- Contributed to the frontend of student-focused mobile/web solutions.

## Projects

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**Streamlit Iris Classifier App**

*70% Contribution*

Built a real-time ML classifier using Python and Streamlit with preprocessing, model training, and a user-friendly interface.

**Super Awesome Swimmers Club – DBMS Project**

*85% Contribution*

Designed and normalized a relational database to 3NF; created ER diagrams and optimized queries for over 80% faster performance.

## Technical Skills

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**Languages:** Python, R, SQL, MATLAB, Java (Intermediate)

**Tools:** Power BI, Streamlit, Excel, Git, Azure, GCP

**Techniques:** Data Wrangling, Visualization, ER Modeling, Indexing, Query Profiling

## Licenses & Certifications

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### Google Developer Badges

Firestore Studio Developer Community, Google Cloud Innovator, Google Maps Platform Innovators  
Women Techmakers Member, Google Developer Program Member — *Jan–Apr 2025*

### Google Cloud

Digital Transformation, Exploring Data Transformation, AI Innovation, App Modernization, Trust & Security  
— *Mar 2025*

### Microsoft Azure

Intro to Data Engineering, Core Data Concepts, Azure Data Fundamentals — *Mar 2025*

### Forage Simulations

JPMorgan Chase – Quantitative Research (ID: xLmcv57sLDzAehJsQ) — *Apr 2025*

Walmart – Advanced Software Engineering (ID: gvf2QEw4RjXGzTSqD) — *Apr 2025*

Goldman Sachs – Risk Management (ID: H97GLcaJfa4wDQ9tC) — *Mar 2025*

## Volunteering & Leadership

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**Member, International Student Advisory Council (ISAC), UB**

*May 2025 – Present*

Represent UB's international student community by advising ISS on campus policies, inclusion, and programs.

## Languages

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English (Fluent), Telugu (Native), Hindi (Fluent)