# MARIA CONTRACTOR

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## EDUCATION

**University of Central Florida**                                                                                              Orlando, FL
**Bachelor of Science in Data Science, Minor in Statistics**                                                              May 2025
Burnett Honors College, 3.8/4 GPA
Relevant Coursework: Big Data Analytics Methods, Statistics and Data Science with AI, Data Science Programming, Data Management Technology

## EXPERIENCE

**Bank of New York**
**Hedge Funds Analyst**                                                                                            Aug 2025 – Present
- Automating reporting with intelligent document processing in **Power Automate**, leveraging ML models to cut task time by **~90%** across hundreds of daily transactions
- Building a Power BI dashboard tracking digital tool usage, quantifying **5000+ hours saved** annually

**Global Compliance and Risk Analyst Intern**                                                                Jun 2024 – Aug 2024
- Built **Power BI** dashboards in liquidity and cash management to track manual workflows, giving managers visibility into thousands of daily cash transactions
- Designed **Microsoft Visio** workflows documenting **10+ treasury processes**, highlighting automation opportunities and standardizing procedures across teams

**University of Central Florida**
**Data Analytics Research Assistant**                                                                        Aug 2024 – May 2025
- Engineered a **Power BI** dashboard tracking contracts and status reports for **926 graduate students**, delivering real-time insights across terms and programs
- Implemented cumulative and weekly visualizations that **cut manual tracking by 40%**, enabling faculty to monitor approvals, denials, and workflows across **15+ departments**

**Data Glacier**
**Data Science Intern**                                                                                          May 2023 – Aug 2023
- Deployed a **Flask + Heroku** app hosting a **linear regression model** trained on **10K+ records** to predict test scores, improving accuracy through logging and iterative feedback integration
- Leveraged **Python** data transformation techniques to clean and analyze **50K+ cab company records**, performing comparative analysis that identified key investment factors

## PROJECTS

**Enterprise LLM Evaluation and Optimization**                                                               Jan 2025 - May 2025
- Benchmarked 12 LLMs on runtime, cost, and scalability, uncovering **40% faster analysis**, **30% lower infrastructure costs**, and potential **$100K+ annual savings** through secure open-source deployment
- Delivered an AI governance and adoption roadmap that gave executives a clear strategy to scale LLMs securely, reduce risk, and maximize ROI

**Addition Financial Analytics Competition**                                                                 Sept 2023 – Jan 2024
- Used **ETL pipelines** in **SQL** to query and transform Census and economic data, preparing datasets for predictive modeling
- Modeled branch demand with **Python** (pandas, scikit-learn), ranking potential sites and projecting a **10–12% market penetration increase** and **$5M+ in new deposits**

**Multus Medium**                                                                                              Jan 2023 – May 2023
- Built a recommendation system in **Python** and **PyTorch** using matrix factorization to deliver personalized media suggestions
- Processed **1M+ user–item interactions** and improved recommendation relevance by **~10–15%** compared to baseline models

## SKILLS

**Technical Skills–** Power Automate, UiPath, Alteryx, PowerBI, SQL, Python, R Studio, Excel
**Certifications –** Alteryx Designer Core Certification, Microsoft Career Essentials in Generative AI, SQL Essential Training, Python Object-Oriented Programming, From Excel to Tableau
**Awards -** NCWIT Northern Florida and Southeast Georgia Affiliate Award for Aspirations in Computing Winner
**Organizations –** American Mensa Member, FIRST Lego League Robotics, BotBall, Indian Students Association, PERIOD @ UCF, Honors Congress, DECA