

# DARREN ANDREW DCUNHA

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## SUMMARY

Data Scientist specializing in Generative AI and Automated Pipelines. Experience deploying RAG frameworks using ChromaDB and OpenAI, with a focus on optimizing financial and operational workflows.

## EXPERIENCE

### Division of Professional Studies (UMBC)

Baltimore, MD

*Jul 2024 – Dec 2025*

*Grad Assistant, Administrative Assistant*

- Built automated reporting workflows with Excel and Python to audit payroll and financial records, increasing data accuracy and cutting manual effort by 40%.
- Structured document and data organization across Google Workspace and Adobe, improving information retrieval speed and audit readiness.
- Coordinated deposits and payroll processes for a 6-person team, streamlining cross-department communication and reducing processing time by 30%.

### BizViz Technologies

Bengaluru, India

*Data Analyst Intern*

*Jan 2023 - Apr 2023*

- Analyzed large-scale energy consumption datasets using Python and SQL to detect trends, anomalies, and optimization opportunities for portfolio clients.
- Developed interactive dashboards and analytical reports to visualize energy usage patterns, improving performance visibility and decision-making.
- Wrote and validated SQL queries and Python scripts to ensure data quality and platform reliability across client environments.

### SEG Automotive

Bengaluru, India

*IT Intern*

*Aug 2022 - Sept 2022*

- Built Power BI dashboards to monitor production-line performance metrics, enabling near real-time tracking for plant managers.
- Automated data extraction and transformation from manufacturing systems, reducing reporting turnaround time and standardizing KPI reporting.
- Performed exploratory data analysis to identify key bottlenecks, contributing to measurable improvements in manufacturing productivity.

## SKILLS

- **Programming & Data:** Python, SQL, PL/SQL, Pandas, NumPy, ETL, data cleaning, data validation, query optimization, statistical analysis.
- **ML & AI:** Machine learning, NLP, LLMs, RAG, prompt engineering, scikit-learn, feature engineering, model evaluation (e.g., KS test), time series analysis.
- **Analytics & Visualization:** ETL pipelines, data integration, trend analysis, KPI development, Tableau, Power BI, Excel, dashboarding, executive reporting.
- **Tools & Workflow:** Git, version control, Agile/Scrum, SDLC, UAT, documentation, cross-functional collaboration, stakeholder communication.

## EDUCATION

### PRESIDENCY UNIVERSITY

Bengaluru, India

*Bachelor's Degree in Computer Engineering*

*Graduation Date: Jun 2023*

### UNIVERSITY OF MARYLAND BALTIMORE COUNTY

Baltimore, MD

*MPS Data Science*

*Graduation Date: Dec 2025*

## PROJECTS

### Synthetic Financial Data Generator (LLM-based) | [View on Github](#)

- Built an OpenAI-powered pipeline to generate synthetic log-return time series for risk simulations, enhancing data availability for rare market scenarios.
- Applied prompt engineering, statistical evaluation (KS test, histograms), and quality checks to ensure realistic distributional behavior.

### Multilingual Marketing Text Generator (LLM + RAG) | [View on Github](#)

- Developed a GPT-based system with RAG (ChromaDB, MiniLM) to create context-aware marketing content across multiple languages and tones.
- Deployed via Streamlit with options for format selection, SEO keywords, and downloadable zip exports for marketing teams.