CHRISTOPHER CABALLERO

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Education

- **MS in Computer Science, Florida State University** — 4.0 GPA
- **BS in Mathematics, Florida State University** — Magna Cum Laude
- **MLOps Specialization, Coursera** (Jun 2023 – Sep 2023)

Experience

Data Scientist, Red Technologies (3PL) — Tampa, FL (Apr 2024 – Present)

- Sole owner of Spot and Contract Pricing APIs; improved gross profit by 6%, increased margin % by 22%, and enhanced win rate by 3% by reprioritizing toward higher-margin deals.
- Led cost modeling efforts to align with GS forecasts within 1% error; improved model confidence intervals by 3x. Mentored intern in production-grade forecasting.
- Built reusable, model-agnostic ML experimentation framework used across projects for tuning, benchmarking, and visualization.
- Developed LLM-powered internal analyst tool to replace DBX Genie; achieved 4x faster performance and improved cost efficiency.
- Designed early MVP for contract pricing model with aligned confidence scoring; enabled safer quoting strategies.
- Refactored internal pricing guardrail system and core project architecture to improve maintainability and onboarding efficiency.
- Integrated MLflow and Unity Catalog for robust MLOps workflows in Databricks; streamlined model tracking and reproducibility.

Data Science Intern, Florida State University (Sep 2022 – Nov 2022)

- Built scalable classification models on a 900GB sharded MongoDB dataset for COVID-19 research; achieved +6% over SOTA in metadata classification.
- Developed distributed PyTorch models and contributed to two published papers on heterogeneous table classification.

Projects — (Jan 2022 – Apr 2024)

- Built and deployed a transformer-based deep learning model in PyTorch for support ticket classification via Flask and Docker.
- Created end-to-end fraud detection pipeline using GCP AI Platform and XGBoost.
- Conducted geospatial emissions analysis with GeoPandas, deployed in Docker.
- Rebuilt Skip Gram word embedding model in NumPy, including real-time visualizations of vector convergence.

Skills

- **Core ML / Modeling:** PyTorch, XGBoost, Bandits, Transformers, Reinforcement Learning
- **Data Engineering / MLOps:** Databricks, MLflow, Unity Catalog, Docker, Azure DevOps
- **Tooling & Workflow:** Sigma, PySpark, Azure Foundry
- **Languages:** Python, SQL, C, C++