

# MATTHEW ROSSI

## EDUCATION

University of Miami | Coral Gables, FL

*Bachelor of Science in Mathematics and Computer Science, summa cum laude (GPA: 4.0/4.0)*

**Honors:** Phi Beta Kappa, Mathematics Departmental Honors, Provost's Teaching Award for Transdisciplinary Learning, Foote Fellow Honors, LEAD Miami Student Employment Program

**Relevant Coursework:** Machine Learning with Applications, Convolutional Neural Networks, Algorithm Design & Analysis, Statistical Analysis, Data Structures & Algorithms, Numerical Linear Algebra, Numerical Differential Equations

Budapest Semesters in Mathematics | Budapest, Hungary

**GPA:** 4.0/4.0 **Coursework:** Advanced Combinatorics, Discrete and Convex Geometry, Groups and Graph Limits, Hungarian Language

December 2022

Spring 2023

## PROFESSIONAL EXPERIENCE

Circana, LLC

July 2023 - Present

**Analytic Solutions Architect**

- Executed retail analytics projects worth \$1.5M in revenue including pricing, assortment, forecasting, display optimization, market sizing, and consumer behavior analyses.
- Redesigned process for training consumer segmentation machine learning models; delivered models worth over \$200k for two of the US's largest fast food chains; built Azure Data Factory pipelines for seamless monthly delivery of model results.
- Reimplemented foodservice analytics suite in python with PySpark, simplifying project execution, improving user satisfaction, and enabling 30% reduction in standard delivery timelines.
- Developed new analytics products, including Market Basket and Foodservice Pricing analyses, worth \$250k in annual revenue.
- Automated PowerPoint creation with python, reducing decking time by 75%.
- Coached colleagues on Python initiatives, introducing version control and other best practices.
- Invested in improving company culture through leadership roles: managed a Summer Associate; ran the analytics monthly coffee chat program; and served on leadership of the Early Career Professionals Business Resource Group.

Institute for Data Science and Computing, University of Miami

August 2021 - December 2022

**Machine Learning Intern, Systems and Data Engineering Team**

- Used Python and Tensorflow to develop an NLP application to extract information from unstructured text in a corpus of 200k cancer pathology notes. Implemented state-of-the-art models in a high-performance computing environment.
- Developed our body of knowledge by implementing and evaluating a wide variety of models and optimization techniques, setting the project on the path toward delivering an application integrated into the University's Research Informatics system.
- Worked closely with senior researchers to establish research questions and propose methods for inquiry.
- Presented findings orally and in written scientific and technical reports.

## LEADERSHIP & VOLUNTEER EXPERIENCE

Data Analytics Student Association, University of Miami

January 2022 - December 2022

**President**

- Organized speaker and workshop events that connected students with industry professionals and the skills needed for success in a data analytics career. DASA has helped more than a dozen students land full-time jobs and internships.
- Hosted a code-along Python Machine Learning Fundamentals workshop for our members.

University of Miami

October 2021 - December 2022

**Teaching Fellow**

- **Spring 2022:** Earned the Provost's Teaching Award for Transdisciplinary Learning for my contributions to the experimental, discussion-based course *Religion and Sacred Space in the Era of Virtual Reality and Artificial Intelligence*.
- **Fall 2022:** Served as Teaching Fellow for the Honors freshman seminar course *Books that Matter*. Enriched educational experience for students by guiding discussion, asking provocative questions, and challenging students' ideas and arguments.

The Politicane Magazine, University of Miami

May 2020 - December 2022

**Managing Editor / Vice President / Co-Founder**

- Mentored junior staff writers to develop article pitches, improve language skills, and enhance argument clarity and impact.
- Edited articles for style, content, and quality; provided secondary research and fact-checking.

Sheila for Mayor | Winter Park, FL

September 2023 - March 2024

**Volunteer**

- Supported Sheila DeCiccio's successful campaign for mayor of Winter Park, FL. I managed the campaign Facebook page; arranged a mailing campaign of personalized letters to voters in local senior living communities; and assisted with campaign event logistics.

## TECHNICAL SKILLS

**Languages:** Python (TensorFlow/Keras, PyTorch, scikit-learn, PySpark, NumPy, pandas), SQL, R, VBA

**Tools:** Azure (Databricks, Data Factory, DevOps, and Blob Storage), Microsoft Excel, L<sup>A</sup>T<sub>E</sub>X, Git, Conda, PyCharm, VSCode, Jupyter