

MATTHEW ROSSI

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EDUCATION

University of Miami, Coral Gables, FL

December 2022

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, Data Structures & Algorithms, Numerical Linear Algebra, Numerical Differential Equations

Budapest Semesters in Mathematics, Budapest, Hungary

Spring 2023

WORK EXPERIENCE

The NPD Group, L.P.

June 2022 – August 2022

Summer Associate, Global Technology – Enterprise

- Developed a Python application integrated into Azure Databricks to automatically pull and analyze data from a SAS server according to user-specified parameters. The tool empowers the analytics team to flexibly meet client needs with custom, tailored retail sales forecasts while saving 200+ labor hours per year.
- Ensured code quality and maintainability by creating unit tests and providing thorough documentation.
- Built PowerBI report dashboards from help desk ticket data, providing the Enterprise Technology team with the insights needed to streamline processes ahead of the company's merger with IRI.
- Interviewed stakeholders to establish project requirements; demonstrated prototypes to drive conversations that continually evolved and clarified requirements, ultimately yielding applications satisfactory to the end users.

Institute for Data Science and Computing, University of Miami

August 2021 – December 2022

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.

Department of Student Activities and Organizations, University of Miami

August 2019 – December 2021

Student Financial Intern

- Built budget templates and accounting systems in Excel workbooks to streamline financial tracking and reporting.
- Programmed custom Excel Macros in Visual Basic that increased the speed of a weekly data entry process 15-fold.

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.

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.
- Engaged with campus political organizations, regularly working with the College Democrats and College Republicans.

University of Miami

October 2021 – December 2022

Teaching Fellow, University of Miami

- **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.

TECHNICAL SKILLS

Projects: Identifying COVID-19 Infection with Residual Convolutional Networks; ResNet50 Transfer Learning on Fashion-MNIST

Skills: Machine Learning, Computer Vision, Natural Language Processing, Data Cleaning & Management, Data Visualization

Languages: Python (Tensorflow/Keras, PyTorch, scikit-learn, pandas, PySpark, NumPy, matplotlib), SQL, VBA, R, Java, SAS

Tools: Git, Unix, Jupyter, DataBricks, RStudio, Conda, PowerBI, Power Apps, Power Automate, Microsoft Azure, LaTeX