

## Tony DiRubbo

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### Education

**Syracuse University**, School of Information Studies, Syracuse, NY *May 2026*

**M.S. Applied Data Science** *Secondary Core*: Artificial Intelligence – 4.0 GPA

*Relevant Coursework*: Software Engineering for AI Applications | Deep Learning | Applied Machine Learning  
Natural Language Processing | Scripting for Data Science | Big Data Management and Concepts

**St. John Fisher University**, Rochester, NY, *Summa Cum Laude* *May 2024*

**B.S. Media Management** | Minor in Data Analytics – 4.0 GPA

*Relevant Coursework*: Foundations of Computer Science | Web Design | Database Management and Security

### Applicable Technical Skills/Certifications

**Python**: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, NLTK, Flask, spaCy, CUDA

**Software Development**: Java, C, C++, Swift, Git, Docker, Microsoft Azure, MongoDB

**Microsoft Excel**: Pivot Tables, VLOOKUP, Statistical and Solver Add-On Packages, 3D Mapping, VBA

**SQL Relational Databases**: MySQL, SQLite, MS SQL Server, PostgreSQL, Microsoft Access, pyodbc

**Web Development**: JavaScript, HTML + CSS, WordPress, Google Analytics

### Work Experience

**Global Master Data / Project Analyst Co-op**, CooperVision, Rochester NY *March 2025 – August 2025*

- Utilized Java, Visual Basic, and Oracle to develop applications to assist with the data pipeline
- Constructed Python scripts to perform large-scale data changes and updates
- Reviewed and signed-off on data entry/changes to ensure data governance between regional systems
- Pulled data for inquiry and analysis for finance, sustainability, and customer service teams using SQL

**Graduate Student Researcher**, Nexis Technology Lab, Syracuse NY

*January 2025 – Present*

- Developing adaptive AI resources to enhance student learning and engagement
- Collaborating with a team of five graduate students, meeting weekly to coordinate research efforts
- Leading semester-based projects focused on consistent AI themes across multiple terms
- Presenting research progress and outcomes at end-of-semester poster symposiums

### Project Experience

**Open-Source Model Distillation** *Natural Language Processing*

*Spring 2025*

- Developed a paper on how to utilize a large language model to produce smaller, specific, models
- Trained a model from Meta's Llama 3.1 and Google's BERT to identify spinal cord diseases
- PyTorch was utilized to establish the model's framework, with CUDA allocation for efficient processing
- Presented findings at a keynote presentation, walking through the overall process of distillation

**Machine Learning to Predict Diabetes** *Applied Machine Learning*

*Spring 2025*

- Built ML pipelines to predict Type II diabetes using non-clinical data from the CDC BRFSS survey
- Engineered and encoded 28+ features; applied SMOTE and PCA to handle high dimensionality
- Compared classification models (Logistic Regression, Random Forest, XGBoost, Neural Networks)
- Applied cross-validation, threshold tuning, focal loss, and synthetic sampling to improve performance

### Leadership Experience

**Boys Cross Country Coach**, Skaneateles Central School District, Skaneateles, NY

*August 2024 – Present*

- Assists with the development and leading of practices and coordination of bus travel
- Practices are planned on a weekly basis, with the week's competition in mind
- Contributes to runners achieving faster 5km times and higher race placements