Michael Paglia

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TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, Java, C++

ML/Data: PyMC, pandas, NumPy, scikit-learn, TensorLy, Matplotlib, Seaborn, Presto, Daiguery

Cloud & Tools: AWS S3, GCP, Docker, Git, PostgreSQL, Flask

EXPERIENCE

Meta New York, NY

Lead Data Analyst (Generative AI)

May 2024 - Present

- Manage multiple data annotation projects end-to-end, collaborating with researchers to enhance AI systems and deploy specialized knowledge experts to optimize data quality for AI agents powered by Llama 4 using Python, SQL, and Presto/Daiquery
- Lead and mentored 30+ analysts on scalable data methodologies while developing bespoke **dashboards** and **data pipeline solutions**, improving operational efficiency by 40% and achieving 90% research team approval rating

518 Cares Troy, NY

Founder Mar. 2025 – Present

• Founded healthcare access non-profit serving 50K+ population in Troy, NY community with web-based resource database and eligibility screening tool at 518cares.org

• Developed platform aggregating free and low-cost healthcare services with **privacy-first architecture** using **JavaScript** and **PostgreSQL**

The Research Foundation for SUNY (Data Management and Mining Lab)

Albany, NY

National Science Foundation Research Fellow

Jan. 2024 - May 2024

- Implemented and tested 10+ machine learning algorithms for temporal graph and multi-dictionary signal decomposition using Python and NumPy, achieving a fit of over 98% to datasets with 20M+ points for data reconstruction
- Integrated custom graph and time-series dictionary generation to reduce data retrieval time by nearly 90% using TensorLy and AWS S3

Regeneron Pharmaceuticals, Inc.

Rensselaer, NY

Software Engineering Intern

May 2023 - Aug. 2023

- Developed and deployed a CRUD application and REST API using Python, Flask, and JavaScript used by IT team members, improving operational efficiency and saving 2 hours of manual effort each week
- Provided smart contract-based access management using Dremio Data Lake, achieving a 20% improvement in secure data access verification times across an organization of 4K+ employees

EDUCATION

University at Albany

Albany, NY

Bachelor of Science in Computer Science

May 2024

- Graduated summa cum laude (GPA: 3.85/4.0)
- Member of Phi Beta Kappa

PROJECTS

Premier League Predictions | PyMC, FBRef API | https://bit.ly/4p0lw7J

Nov. 2024

- Bayesian model using Weibull hazard functions and MCMC sampling to predict match outcomes with 8% vig compared to major sportsbooks
- Engineered **ML pipeline** with informative priors and normalized tensors implementing time-dependent goal scoring patterns

PySpady | Python, NumPy, TensorLy, AWS S3 | https://bit.ly/pyspady

Sep. 2023 - May 2024

• ML-driven tensor decomposition library with automated model selection for optimal dictionary, model, and optimizer combinations