DANIEL TSHIANI

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EDUCATION

M.S. Data Science, American University, Washington, D.C.   *December 2025*
- Overall GPA: 3.9 | Relevant Coursework: Neural Networks, Deep Learning, Machine Learning, Political Analysis

B.S. Quantitative Economics, Loyola University Maryland, Baltimore, MD   *December 2022*
- Major GPA: 3.5 | Relevant Coursework: Econometrics, Combinatorics, Game Theory & Economics Info

SKILLS

Programming Languages: Python, R, STATA, SQL, HTML, CSS, familiar with JavaScript
Machine Learning & AI: Supervised Learning (Regression, Classification, Decision Trees / Random Forests, Lasso, SVM), Unsupervised Learning (Clustering, PCA), Deep Learning, GANs, GNNs, Tensor/Matrix Factorization
Knowledge Areas: Computer Vision, NLP, Data Analysis, Statistical Methods (Discriminant Analysis, Splines, Bootstrap)
Data Visualization: Tableau, Power BI | **Tools and Technologies:** GitHub, Excel | **Languages:** English, French

EXPERIENCE

American University, Washington, DC
Teacher Assistant   *January 2024-December 2025*
- Guided grad students through practicum projects, providing structured feedback and analytical support.

Research on International Policy Implementation Lab, Washington, DC
Data Science Intern   *May 2025-August 2025*
- Developed a full-stack web application allowing analysts to explore relationships among peacebuilding actors in conflict-affected states, making complex relational data accessible for decision-making and further research.

American Institute of Research, Washington, DC
Quantitative Research Assistant (International Development Division)   *July 2024-July 2025*
- Automated data processing workflows for the Citizen Math Lessons evaluation, increasing accuracy and efficiency
- Contributed to the PASCOFI project by drafting inception reports, designing surveys, and analyzing data, delivering findings to WUSC that informed cash transfer strategies for improving girls' education in conflict-affected regions.
- Supported the Strengthening Teacher Professional Development for Multilingual Foundational Learning at Scale project by helping design and implement a school-level randomized controlled trial, providing Dalberg and IDRC partners with evidence on the effectiveness of multilingual teacher professional development.

KNG Health Consulting, North Bethesda, MD
Research Assistant (Evaluation and Health Economics Division)   *April 2023-July 2024*
- Conducted data cleaning, descriptive analyses, and literature reviews to assess emergency department access and hospital value, contributing to client reports and visualizations for national health care coalitions.
- Analyzed Medicare Advantage enrollment trends using plan-level and beneficiary data, drafting policy briefs that highlighted regional growth patterns and informed payer strategy.

FEATURED PROJECTS

Automating Credit Decisions: A Machine Learning Approach to Predicting Default Risk
- Designed and implemented an end-to-end classification ML pipeline to predict credit card approvals using logistic regression, decision trees, random forests, and gradient boosting.
- Evaluated models with cross-validation and error metrics, addressing class imbalance and fairness, while exploring the ethical implications of automated financial decision-making.

MLS Soccer Player Recruitment App
- Developed a full-stack web application integrating real-time API U.S. soccer data with regression models to estimate salaries, enabling scouts and coaches to identify undervalued players and make data-driven recruitment decisions.