John Isik

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Education

Stevens Institute of Technology, NJ

Master's Degree in Data Science | GPA:3.5   May 2026

Relevant Coursework:

- Vectors, matrices, linear equations, probability distributions, univariate & multivariate optimization, limit theorems, and Probability Theory, Web Mining, Big Data.

CUNY Queens College, NY

Bachelor's Degree in Computer Science

Minor in Applied Mathematics   May 2023

Relevant Coursework:

- Object-Oriented Programming (C++ and Java), Data Structures, Discrete Math, Linear Algebra, Calculus.

Technical Skills

- **Programming Languages**: Python, Java, C++, SQL
- **Data Science Tools**: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
- **Visualization**: Matplotlib, Seaborn, Tableau
- **Other Tools**: Git, Jupyter Notebooks, Microsoft Excel

Projects

Customer Spending Score Prediction

Data Analyst   December 2024

- Built a supervised model using **Linear** and **Cubic Regression** in **Scikit-learn**, leveraging **Pandas** for data preprocessing to achieve a **27.6% reduction in Mean Squared Error (MSE)** (from 663.52 to 480.67).
- Validated model performance through **scatterplots**, **violin plots**, and **correlation heatmaps**, effectively visualizing key trends and relationships. Also, developed a **user testing case** for real-time Spending Score predictions.

Household Energy Consumption Analysis

Data Analyst   October 2024

- **Analyzed household energy consumption data** using Principal Component Analysis (PCA) for dimensionality reduction, capturing key usage patterns while simplifying feature complexity.
- **Segmented households into clusters** using K-Means which revealed seasonal trends and consumption behaviors.
- **Preprocessed large datasets** by handling missing values, aggregating daily totals, and transforming time-based features for analysis, improving data quality and interpretability.

Visual Learning Tool for Derivations

Technical Lead   May 2023

- **Led the development** of an interactive tool using **Python** and **Matplotlib** to visually demonstrate complex mathematical derivations, enhancing user understanding of key computational concepts.
- **Designed class hierarchies** and structured the application for seamless integration and accuracy.
- **Streamlined** development, **reducing completion time by 25%** through core feature focus.

Professional Experience

Starbucks, Queens, NY

Barista   October 2023 - November 2024

- **Handle 120+ customer orders per hour**, consistently meeting daily sales goals of **$2,500–$3,000**.
- **Lead and mentor new hires**, enhancing team performance; **recognized twice** as "**Partner of the Week**".

Certifications

- **SQL Certification** - Mimo.org (August 2025)
- **IBM Data Science Professional Certificate** (In Progress)