

NICHOLAS GAGNON

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EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE

Master of Science

Business Analytics

Relevant Coursework: Machine Learning Applications, Data Science, Modeling and Optimization

Troy, NY

Aug 2025 – May 2026

SIENA UNIVERSITY

Bachelor of Science

Major in Business; Concentration in Strategic Brand Management & Public Policy

Relevant Coursework: New Product Development, Business Analytics, Consumer Behavior

Loudonville, NY

Aug 2021 – May 2025

RELEVANT EXPERIENCE

PARAXIAL TECHNOLOGIES

Technical Developer Intern

Clifton Park, NY

August 2025 – Present

- Collaborate to design predictive models for AI-driven medical imaging.
- Build analytical dashboards and reports to communicate CT scanner metrics to Mount Sinai Hospital.
- Produced 3D models and technical documentation to support imaging optimization.
- Contributed to continuous process improvement through data analytics.

APPLE

Specialist

Albany, NY

January 2025 – May 2025

- Analyzed performance metrics to forecast adoption rates across business segments.
- Partnered with internal operations teams to design data-driven strategies.
- Research customer segments including business, education, and consumer behavior.
- Enhanced operational processes by integrating business customer insights into team workflows.

SARATOGA REGIONAL YMCA

Marketing Specialist Intern

Saratoga Springs, NY

June 2023 – Aug 2023

- Conducted KPI analysis of digital campaigns, identifying growth opportunities.
- Developed reporting dashboards and tracked user engagement metrics.
- Created data-informed strategies that improved engagement by double digits.

PROJECT EXPERIENCE

HEART DISEASE PREDICTION USING MACHINE LEARNING

Rensselaer Polytechnic Institute

Troy, NY

September 2025 – Present

- Developed machine learning models using ensembles in Python to predict heart disease risk using patient data.
- Cleaned and prepared a dataset over thousands of records using data preprocessing methods.
- Performed exploratory data analysis and visualized key health correlations to understand relationships in data.

NBA DATA WAREHOUSE

Rensselaer Polytechnic Institute

Troy, NY

September 2025 – Present

- Designed and executed full data analytics workflow using NBA dataset
- Applied statistical and machine learning models in Python to predict analyses
- Managed project documentation and progress tracking to ensure the objective of the project.

TECHNOLOGIES AND LANGUAGES

Programming: Python, R

Visualization: Microsoft Excel

Web Development: HTML, CSS

Database & Cloud: SQL, Microsoft Access

