

Ava Allen

New Paltz, NY | (845) 594-8329 | allenava2021@gmail.com | [LinkedIn](#) | [Github Portfolio](#)

TECHNICAL SKILLS

- SQL (MySQL)
 - Python (Pandas, NumPy, Matplotlib, PyTorch)
 - Excel (VLookup, Conditional Formatting, Pivot Tables)
 - R (R Studio)
- Tableau
 - SPSS
 - Data Wrangling & Visualization
 - Regression, Classification, Clustering

EDUCATION

State University of New York at New Paltz - AACSB Accredited School of Business
Master of Business Administration, Concentration in Business Analytics
Cumulative GPA: 4.0/4.0
Related Coursework: Machine Learning (Python), Data Wrangling & Visualization (Python & Tableau), Quantitative Methods for Business Research (R studio), Cases in Strategy & Business Policy

Bachelor of Science in Business Analytics
Cumulative GPA: 3.7/4.0 | *Dean's List 2023-2025*
Related Coursework: Big Data Management (SQL), Decision Modeling & Analysis (Excel), Marketing Research (SPSS)

New Paltz, NY
Jul 2025 - May 2026

Aug 2023 - May 2025

PROJECTS

Hit Predictors: Forecasting Song Popularity with Machine Learning | R Studio
- Optimized RandomForest & XGBoost models to predict song popularity based on audio features for over a million songs on Spotify.
- Discovered key audio features in determining song popularity using gini importance & gain.
- Compared & evaluated the different models' performance using in-sample & out-of-sample AUC.

Determinants of House Prices in Ames, Iowa: A quantile regression approach | R Studio
- Developed and compared six quantile regression models to examine the relationship between hedonic housing characteristics and sale prices across different price segments in real estate analysis.
- Engineered features and uncovered key interactions between neighborhood clusters and house styles, providing insights for real estate developers and pricing strategies.

Relational Database for Membership & Payment Management | mySQL
- Designed a relational database management system for a gym to manage member information, memberships, and payment records.
- Developed entity-relationship diagrams and SQL queries (JOIN, GROUP BY, SUM, and subqueries) to improve record-keeping, optimize operation efficiency, and calculate key business metrics such as revenue and active memberships.

May 2025

Mar 2025

Dec 2024

WORK EXPERIENCE

Graduate & Research Assistant
SUNY New Paltz
- Supported instruction for 100+ undergraduate and graduate students across three courses: Data Wrangling with R, Statistics for Business and Economics, Business Economics for Managers.
- Held office hours to provide one-on-one academic support, addressing questions related to homework, exams, and course concepts.

Personal Assistant to the CEO
Cash Studios
- Assisted with archival and digital asset management for independent film production (Excel), while applying analytics and time management skills to streamline workflows and manage project timelines.
- Oversaw logistics for merchandise and book launches using various databases (CRMs and SCMs)
- Coordinated with contractors by securing competitive bids and managing communications.
- Organized household and office systems, resolved administrative issues such as insurance disputes and bill reconciliation, and maintained accurate financial documentation.
- Conducted research to support outreach, marketing, and promotional initiatives for public-facing projects and book tours.

Relentless Strength
Co-Founder & Head Powerlifting Coach
- Lead a dedicated team of powerlifters with experience ranging from beginner to the national level.
- Designed and implemented comprehensive strength training programs tailored to each athlete's needs (Excel).
- Managed athletes on meet day, including handling warm-ups, attempt selection, and providing in-person coaching support.

New Paltz, NY
Aug 2025 – Present

Accord, NY
Oct 2024 – Present

Remote
Jan 2023 – Present