

Aiden Murphy

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EDUCATION

Northeastern University, D'Amore-McKim School of Business | Boston, MA 2022 - 2026

Candidate for BS in Business Admin with minor in Data Science, concentrations in Business Analytics, Fintech

Notable Coursework: Data Mining for Business, Data Management, Information Visualization, Blockchain Applications in Finance, Applied Financial Econometrics & Data Modeling, International Business, Corporate Innovation.

Activities: CASE (Consulting Club), Semester abroad in Ireland at UCD, Varsity Esports (Top 0.25% global) & LoL Club President.

TECHNICAL SKILLS

Python (Pandas, sklearn, XGBoost, FastAPI), SQL, PowerBI, Tableau, Excel, ERP (Oracle, SAP, Dynamics 365).

PROJECTS

Kalshi/Polymarket Prediction Market Algorithmic Trading 2025 - present

- **Market Analysis & Opportunity Identification:** Analyzed pricing inefficiencies across prediction market platforms, developing a systematic framework for evaluating contract mispricing and residual risk.
- **Real-Time Mention Trading:** Developed trading pipeline using Nvidia Multitalker ASR for live broadcast transcription, executing orders via Kalshi API with 1-2 second latency from speech to order. Deployed on proximity-optimized VPS.
- **Predictive Modeling:** Trained models on historical broadcast transcripts combining speaker-specific language patterns with event-driven context (policy relevance, news cycle) to anticipate market movements and pre-position before mentions occur.
- **Performance:** Grew \$2,000 initial capital to ~\$11,000 through application of multiple strategies.

Varsity Esports and Club President 2025 - present

- **Team Leadership:** Led two competitive 5-player teams while competing on varsity. Managed roster decisions and provided mentorship to develop player performance.
- **Community and Operations:** Restructured club communication platform to establish alumni mentorship channels. Oversaw recruitment, retention, and member development.

Tableau Portfolio 2024 - present

- **Data Visualization & Analysis:** Built compelling visualizations on diverse topics including player trends in CS:GO, BlueBike data and Yahoo Finance data, leveraging Tableau's advanced features.
- **Data Cleaning:** Gained experience cleaning datasets, querying APIs, parsing data from XML and HTML formats.
- **Advanced Visualization Techniques:** Utilized Sankey Diagrams and Waterfall Charts to convey data relationships and trends.

Predictive Model Identifying MBTA Subway Riders 2024

- **Exploratory Data Analysis:** Used various summary statistics and correlation matrix to identify how factors like weather, sports attendance, and holidays affect ridership on peak traffic days.
- **Various ML models:** Trained and benchmarked SVR, KNN, and Decision Tree models. Combined top performers into ensemble for final ridership predictions.

Leadership in Global Markets Association at NEU 2024 - 2025

- **Team Management:** Managed team of 4 in creating weekly hour-long deliverables for 20-25 interested members.
- **Market Research and Analysis:** Evaluated global industries, including electric vehicles, real estate, and energy, with focus on growth trends in Chinese and Indian markets.

WORK EXPERIENCE

Allen Edmonds Newbury Street | Boston, MA 2024 - present

Luxury Sales, men's footwear flagship location

- **Top Regional Sales Achievement:** Took initiative as the store's top performer, drove store-wide sales to all-time high among 32 locations in the East Coast region by applying data-driven strategies and deep product expertise.
- **Analytics & Performance Monitoring:** Leveraged PowerBI dashboard to track and analyze KPIs and sales performance across daily, weekly, and monthly timeframes, identifying opportunities to optimize inventory and sales strategies.

Prudential Financial | Marlborough, MA July - December 2025

Financial Professional Associate, financial services

- **Cross-Functional Training & Development:** Demonstrated adaptability in rotational program spanning licensing, client acquisition, and financial advisory responsibilities, built and maintained a network of 200+ viable clients.

ADDITIONAL INFORMATION

Community: Franklin Parker Preserve Volunteer, helped rebuild bridges and dams to redirect waterways and preserve habitat.

Other: Proficient in French, 2nd-degree black belt.