Dylan Black

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Education

Northeastern University, Boston, MA

Bachelor of Science in Economics and History, Graduation May 2025
Minors in Data Science, Mathematics, and Computational Social Science
GPA: 3.98 / 4.0

Relevant Coursework: Discrete Structures, Fundamentals of Computer Science I/II, Object-Oriented Design, Principles of Information Science, Probability and Statistics, Calculus I-III, Linear Algebra, Real Analysis, Machine Learning and Data Mining, Macroeconomic Theory, Microeconomic Theory (PhD-level), Applied Econometrics (PhD-level), Historical Research and Writing

London School of Economics, London, UK

Attended July – August 2023
GPA: 4.0 / 4.0

Relevant Coursework: Introduction to Data Science and Machine Learning, Economic History

Professional Experience

TJX Companies Inc.   Framingham, MA

Data Science Co-Op, TJX Digital   Jan 2024 – June 2024
- Led analysis on the impact of weather on Sierra store sales using an applied regression analysis, including data collection, cleaning, and modeling
- Built & deployed a Random Forest time series model for Sierra sales, decreasing error from 4.3% to 2.7% ; Managed model selection, optimization, feature engineering, and deployment
- Applied difference-in-differences methodology to evaluate the causal impact of a store remodel on sales

Northeastern University Department of Economics   Boston, MA

Undergraduate Research Assistant – Prof. Bilge Erten   July 2023 – June 2024
- Analyzed data to determine heterogeneous treatment effects of various lending schemes in India on time usage based on education, caste, and landholding
- Conducted robustness checks for a regression discontinuity design study to determine the effect of having an Islamic mayor on infant mortality using education and age variables
- Automated web scraping to collect demographic data on mayoral candidates in Turkey

Perkins School for the Blind   Watertown, MA

Research and Data Analyst Co-Op, Howe Innovation Center   Jan 2023 – July 2023
- Designed a database of 1200+ companies and 900+ investors in the DisabilityTech market, automated data collection using the Crunchbase API and Python scripting
- Analyzed and reported patterns within market data using Python and statistical methods to make insights on market size, location, funding, and sectors
- Collaborated with McKinsey on a cornerstone whitepaper as the Innovation Center's first full-time researcher
- Developed interactive and accessible web-based visualizations of geographic data, companies founded over time, and categorizations of DisabilityTech products

Fiveable   Remote

Experience Data Analyst   Dec 2021 – June 2022
- Reported experience data using Amplitude and Google Analytics for over 20,000 users to drive product-focused decisions, such as a global analysis of student retention at certain times
- Implemented Amplitude data tracking in codebase for tracking user interaction and log in statistics
- Communicated data driven product recommendations to executive leadership on a weekly basis

Learning Project Coordinator   June 2021 – Dec 2021
- Led market research on CMS platforms for a company-wide content migration
- Performed SEO keyword research and developed content taxonomies for the eventual creation of over 1000 pieces of new content

Programming Languages and Tools

R (Tidyverse), Stata, Python, Pandas, Matplotlib, Numpy, Jupyter Notebooks, Microsoft Excel, SQL, SQLite, Google Cloud Platform, Google BigQuery, Highcharts, GraphQL, Tableau, Supervised and Unsupervised Learning, Quantitative Text Analysis (topic modeling), HTML + CSS, Node.js, npm, MongoDB, Java