Nicholas LaMonica

Sports Data Analyst, Writer, Statistician

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Portfolio website: aistats3.github.io
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About Me

Hardworking Mathematics and Statistics graduate from Concordia University with strong writing, communications, and people skills; intuitive learner.

Education

Concordia University, Montreal, Q.C.
B.S. in Mathematics and Statistics, May, 2024

Arlington High School, Arlington, MA
Diploma, 2019. Inducted into National Honor Society.

Experience

Analytics Intern / Men's Basketball - Concordia University
November 2022 - Present, Montreal, QC

Proactively initiated sports analytics practice. Collect and analyze lineup, shot-clock relative shooting, post possessions, and player shot selection data to help the team assess offensive flow, effectiveness of defensive gameplans, and optimize lineup rotations.

Waiter / Alto
May 2022 - November 2023, Montreal, QC

Reliable, highly productive server. Primarily worked closing shifts and often had highest sales on waitstaff. Nurtured a positive environment in the restaurant.

Deli Prep Clerk and Counter Clerk / Stop & Shop
June 2020 - August 2021, Arlington, MA

Served customers at the deli counter, prepared hot and cold foods.

Lifeguard / Underwood Pool
June 2019 - August 2019, Belmont, MA

Summer lifeguard and swimming instructor.

Tech Support / Arlington Community Education
November 2017 - June 2019, Arlington, MA

Ensured smooth operation of all classroom technology for adult education programs.

Northwoods Camp for Boys / Counselor
June 2018 - August 2018, Mirror Lake, NH

Looked after campers, taught swimming/sailing, lifeguard at YMCA overnight camp.

Portfolio

Basketball Web Scraping Project

Summary: Part of Concordia MBB internship. Wrote code in python to web scrape publicly available RSEQ basketball play-by-play information to perform lineup analysis without needing to watch film.

Result: Automated a large portion of my existing duties and expanded the scope of the analysis I was able to perform.

Basketball Data Analytics Toolkit

Summary: Part of Concordia MBB internship. Designed and coded tools to efficiently collect, tag, and present data to coaches. Worked with coaches to tailor graphics to team needs.

Result: Vastly improved my film review workflow. Went from hand-written play by play information to a csv-based system

SPL Open Data Challenge 2024 - aistats3.github.io/portfolio/spl-open-data

Summary: Worked with pose tracking data provided by Maple Leaf Sports and Entertainment. Data consisted of ~125 free throws taken by the same player. My goal was to identify adjustments the player could make to their free throw form that would lead to more makes.

Result: Gained understanding of the utility that advanced tracking/biometric data has to coaches; how to translate granular analysis into actionable information.

Code: https://github.com/AIstats3/SPL-Open-Data

Offensive Versatility Score Statistic - aistats3.github.io/portfolio/ovs

Summary: Created a statistic, OVS for short, to measure basketball players' offensive versatility. The goal of this project was to identify players like Kevin Durant, Chris Paul, and others who can get their shot off whenever they want.

Result: The current working version of OVS fulfills its function of identifying players with strong midrange games. Admittedly, I originally developed this to bolster a humorous argument with my friends, so it has a narrow scope in terms of rigorous analysis.

2>3: NBA Tracking Data - aistats3.github.io/portfolio/midrange-final

Summary: Final project for sports analytics class. My goal was to see what value midrange shots have in the NBA's pace-and-space era.

Result: I found that midrange shots lead to more open shots on subsequent possessions than layups of threes. Gained substantial comfort working with tracking data.

Code: https://github.com/AIstats3/NBA-Final