

Avery J. Doiron

CONTACT

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SUMMARY

Undergraduate computer science student specializing in data science and sports analytics. Experience building large-scale data pipelines and analytical models using Python. Creator of the hockey analytics platform Analytics With Avery, producing statistical models, visualizations, and research. Interested in applying data science techniques and statistical methods to sports performance analysis and decision-making.

EDUCATION

St. Francis Xavier University

Antigonish, NS

Bachelor of Science (BSc)

(Expected) Sep. 2023 – Apr. 2027

Honours in Computer Science, Minor in Mathematics, Concentration in Computing

GPA: 3.9/4.0 | Major GPA: 4.0/4.0

Relevant Coursework

Artificial Intelligence	Sports Analytics	Linear Algebra
Natural Language Processing	Data Science	Discrete Mathematics
Evolutionary Computation	Statistical Methods	Calculus I
Algorithm Design and Analysis	Statistics for the Sciences	Calculus II
Advanced Data Structures	Programming and Data Structures	
Database Management Systems	Introduction to Programming	

Honours and Awards

Dean's List	2025
In-Course Scholarship (\$1,000 CAD)	2024 & 2025
Alley Heaps Undergraduate Research Award (\$9,250 CAD)	2026

RESEARCH

Research Interests

- Sports analytics and player performance modeling
- Natural language processing for sports media analysis
- Statistical analysis of professional sports
- Data visualization and communication of analytics

Undergraduate Research Intern

(In Progress) Apr. 2026 – Aug. 2026

Supervised by Dr. Milton King and Dr. Kyran Cupido at StFX

- Conducting research on the relationship between NHL personnel interview language and on-ice performance
- Collecting and cleaning interview transcript data from NHL coaches, executives, and players
- Applying natural language processing techniques to analyze linguistic patterns and sentiment
- Linking linguistic features with team and player performance metrics

PROFESSIONAL EXPERIENCE

SEASI

Remote

Junior Technical Analyst

May. 2024 – Jun. 2024 & May. 2025 – Aug. 2025

- Contributed to backend system design and implementation for SEASI's website and AI chatbot
- Assisted in designing backend database infrastructure using Microsoft Azure; earned AZ-900 certification
- Managed Microsoft Dynamics CRM data for 100+ consultant profiles; built dashboards and improved reporting workflows
- Customized 50+ consultant proposals aligned with federal RFP requirements, aiding in multiple successful contract awards
- Supported testing, documentation, and rollout of cloud-based IT tools

PROJECTS

NHL Player and Team Analytical Card Generation

Jan. 2025 – Present

- Designed modular Python codebase enabling automated data collection, ranking models, and visualization generation
- Built an automated data pipeline to scrape, clean, and structure multi-season NHL player and team data using BeautifulSoup and Pandas
- Developed a weighted player evaluation model using NumPy, Scikit-learn, and SciPy to quantify offensive and defensive performance, normalize multi-season data, and generate comparative rankings
- Automated generation of 14,800+ player cards and 500+ team cards across 19 seasons, with elements from Matplotlib and PIL, delivering visually branded cards with percentile bars, trend graphs, and player/team rankings for professional presentation
- Published findings and visualizations on analyticswithavery.com to communicate insights to a hockey-focused audience

TECHNICAL SKILLS

Programming Languages

Python, R, SQL, Java, JavaScript, HTML, CSS

Libraries/Frameworks

Pandas, NumPy, SciPy, Scikit-learn, BeautifulSoup, Matplotlib, Plotly, Flask

Tools & Platforms

Git/GitHub, Visual Studio Code, RStudio, Microsoft Office