

Gabriel Hardy-Joseph

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EDUCATION

HEC Montréal

Expected Graduation : Dec. 2025

Honours Bachelor's of Business Administration – Business Analytics and Finance

GPA : 3.6/4.3

- Relevant coursework : Data Science, Python, Business Analytics, Applied Mathematics, Statistical Modeling.
- Mention of Great Distinction.

Sogang University

Mar. 2023 – Jun. 2023

Student Exchange Program – Seoul, South Korea

GPA : 3.7/4.3

- Member of the Taekwondo and running clubs, represented the university at the Seoul Shinmun Half-Marathon.

EXPERIENCE

HEC Montréal – Tech3Lab | *Intern, Research Assistant*

May 2025 – Present

- Developed machine learning models using eye-tracking features to classify cognitive load, achieving 80% accuracy.
- Granted NSERC Undergraduate Research Award, supporting research in natural sciences and engineering (\$7,500).

IBM | *Intern, Business Analyst*

Jan. 2024 – Dec. 2024

- Advised leadership on strategies for IBM's Open Payments Marketplace via industry and competitor research.
- Integrated product analytics into IBM offerings through research and functional requirements development.

TMX Group | *Intern, Business Analyst*

Sep. 2022 – Dec. 2022

- Analyzed financial data from approved participants to detect manipulative trading practices.

EXTRACURRICULAR

HEC International Case Competitions Team | *Academic Delegate*

Feb. 2022 – May 2025

- Garnered 9 top-three podium placements and 3 jury's favorite awards across 11 undergraduate case competitions.
- Selected to represent the university on the global stage at three international business case competitions :
 - Heavener International Case Competition – University of Florida, United States (Feb. 2025).
 - RSM STAR Case Competition – Rotterdam School of Management, Netherlands (Apr. 2025).
 - Chulalongkorn International Business Case Competition – Chulalongkorn University, Thailand (May 2025).

HEC Data Science Committee | *Competitions Vice President*

May 2024 – Apr. 2025

- Led a data-driven competition with the CDPQ, conducting 40+ interviews and forming the top two winning teams.

HEC Trading Club | *Executive Vice President*

May 2022 – Apr. 2024

- Occupied a leadership position and was responsible for managing the club's projects, events, image and partnerships.

PROJECTS

PremierPredict: Football Match Predictor App | *Python, XGBoost, Streamlit*

- Trained an Extreme Gradient Boosting machine learning model to predict the outcomes of Premier League matches.
- Engineered robust features from 25 years of match data including team form, statistics and historical matchups.
- Created an interactive web application using Streamlit which allows users to predict outcomes of upcoming matches.

Frozen Lake Stochastic Reinforcement Learning Agent | *Python, NumPy, Gymnasium*

- Implemented Q-learning algorithms for stochastic environments using NumPy matrix operations.
- Analyzed performance across episodes, revealing optimization patterns in uncertain environments.
- Authored a technical blog post documenting methodology, results, and insights from the project.

SKILLS

Tools: Python, SQL, LaTeX, TensorBoard, Tableau, PowerBI, Visual Studio Code, PowerPoint, Excel, Git, Github.

Libraries: PyTorch, Pandas, NumPy, Matplotlib, Scikit-Learn, Pytesseract, Gym, Stable Baselines, Pynput, Streamlit.

Languages: Fluent in written and spoken French and English.

Certifications: Stanford Machine Learning Specialization, Microsoft Azure AI Fundamentals (AI-900).

Interests: Long distance triathlon, endurance running, speed skating, video games, graphic design, language learning.