

Gabriel Hardy-Joseph

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EDUCATION

HEC Montréal <i>Master of Science – Data Science and Business Analytics [Incoming]</i>	2026 – 2028
HEC Montréal <i>Honours Bachelor's of Business Administration – Business Analytics and Finance</i>	2021 – 2025 <i>GPA : 3.6/4.3</i>
<ul style="list-style-type: none">• Relevant coursework : Data Science, Python, Business Analytics, Applied Mathematics, Statistical Modeling.• Student Exchange Program : Sogang University – Seoul, South Korea.	

EXPERIENCE

HEC Montréal <i>Intern, Research Assistant</i>	May 2025 – Present
<ul style="list-style-type: none">• Developed machine learning models using eye-tracking features to classify cognitive load, achieving 80% accuracy.• Granted NSERC Undergraduate Research Award, for research in natural sciences and engineering (\$7,500).	
HEC Montréal <i>Teaching Assistant</i>	Aug. 2025 – Present
<ul style="list-style-type: none">• TECH 20704 : Python Programming Essentials. Graded student work and led weekly consultation sessions.	
IBM <i>Intern, Business Analyst</i>	Jan. 2024 – Dec. 2024
<ul style="list-style-type: none">• Integrated product analytics into IBM offerings through research and functional requirements development.	
TMX Group <i>Intern, Business Analyst</i>	Sep. 2022 – Dec. 2022
<ul style="list-style-type: none">• Analyzed financial data from approved participants to detect manipulative trading practices.	

PUBLICATIONS



Hardy-Joseph, G., Bélanger, C., Karan, A. J., Coursaris, C., Sénécal, S., Leger, P. M., & Rolon-Mérette, T. Detection of Cognitive Load Using Eye Tracking and Machine Learning in the N-Back Paradigm. *Abstract presented at the NeuroIS workshop of America's Conference on Information Systems 2025 Conference*, Montréal. [In preparation]

Bélanger, C., **Hardy-Joseph, G.**, Karan, A. J., Coursaris, C., Sénécal, S., Leger, P. M., & Rolon-Mérette, T. A Deep Learning Approach for Detection of Visual Inhibition Using Eye Tracking and the Anti-Saccade Paradigm. *Abstract presented at the NeuroIS workshop of America's Conference on Information Systems 2025, Montreal*. [In preparation]

EXTRACURRICULAR

HEC International Case Competitions Team <i>Academic Delegate</i>	Feb. 2022 – May 2025
<ul style="list-style-type: none">• Garnered 9 top-three podium placements and 3 jury's favorite awards across 11 undergraduate case competitions.• Represented the university at three international business case competitions (USA, Netherlands, Thailand).	
HEC Data Science Committee <i>Competitions Vice President</i>	May 2024 – Apr. 2025
<ul style="list-style-type: none">• Led the <i>DéfiA 2025</i> competition with the CDPQ, conducting 40+ interviews and forming the top two winning teams.	
HEC Trading Club <i>Executive Vice President</i>	May 2022 – Apr. 2024
<ul style="list-style-type: none">• Occupied a leadership position and was responsible for managing the club's projects, events, image and partnerships.	

PROJECTS

<u>PremierPredict: Football Match Predictor App</u>  <i>Python, XGBoost, Streamlit</i>	
<ul style="list-style-type: none">• Trained an Extreme Gradient Boosting machine learning model to predict the outcomes of Premier League matches.• Created an interactive web application using Streamlit which allows users to predict outcomes of upcoming matches.	
<u>Frozen Lake Stochastic Reinforcement Learning Agent</u>  <i>Python, NumPy, Gymnasium</i>	
<ul style="list-style-type: none">• Implemented Q-learning algorithms for stochastic environments using NumPy matrix operations.• Authored a technical blog post documenting methodology, results, and insights from the project.	

SKILLS

Tools: Python, SQL, Snowflake, Tableau, PowerBI, LaTeX, VS Code, Tensorboard, PowerPoint, Excel, Git, Github.
Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, PyTorch, 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-course triathlon, marathon swimming, bikepacking, boxing, graphic design, language learning.