

Gabriel Hardy-Joseph

 [LinkedIn](#)  [Website](#)  [Github](#)

Email : gabriel.hardy-joseph@hec.ca

Mobile : +1 (819) 213-6285

EDUCATION

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| HEC Montréal
<i>Master of Science – Data Science and Business Analytics [Incoming]</i> | 2026 – 2027 |
| HEC Montréal
<i>Honours Bachelor's of Business Administration – Business Analytics and Finance</i> <ul style="list-style-type: none">• Relevant coursework : Data Science, Python, Analytics, Linear Algebra, Linear Optimisation, Statistical Modeling.• Student Exchange Program : Sogang University (Seoul, South Korea). | 2021 – 2025 |



EXPERIENCE

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| HEC Montréal <i>Intern, Research Assistant</i> <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). | May 2025 – Present |
| HEC Montréal <i>Teaching Assistant</i> <ul style="list-style-type: none">• TECH 20704 : Python Programming Essentials. Graded student work and led weekly consultation sessions. | Aug. 2025 – Present |
| IBM <i>Intern, Business Analyst</i> <ul style="list-style-type: none">• Integrated product analytics into IBM offerings through research and functional requirements development. | Jan. 2024 – Dec. 2024 |
| TMX Group <i>Intern, Business Analyst</i> <ul style="list-style-type: none">• Analyzed financial data from approved participants to detect manipulative trading practices. | Sep. 2022 – Dec. 2022 |

PUBLICATIONS

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- 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]

PROJECTS

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- EquityLens: AI-based Financial News Analysis**  | *Python, LangChain, OpenAI API, AWS ECS, Docker, Streamlit*
- Leveraged **LangChain**, **OpenAI API**, and **RAG** to build a tool for automated news article summarization.
 - Developed **FAISS**-based vector search with **NLP** and **Newspaper3k** for automated retrieval and quote extraction.
 - Deployed **Streamlit** on **AWS ECS Fargate** with a CI/CD pipeline (CodePipeline, Docker-ECR) and **Terraform**.
- PremierPredict: Football Match Predictor App**  | *Python, XGBoost, Streamlit*
- 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.

EXTRACURRICULAR

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| HEC International Case Competitions Team <i>Academic Delegate</i> <ul style="list-style-type: none">• Nine podium finishes in eleven case competitions, including three international (USA, Netherlands, Thailand). | Feb. 2022 – May 2025 |
| HEC Data Science Committee <i>Competitions Vice President</i> <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. | May 2024 – Apr. 2025 |
| HEC Trading Club <i>Executive Vice President</i> <ul style="list-style-type: none">• Occupied a leadership position and was responsible for managing the club's projects, events, image and partnerships. | May 2022 – Apr. 2024 |

SKILLS

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- Tools:** Python, SQL, R, Snowflake, Tableau, PowerBI, AWS, Terraform, Docker, LaTeX, VS Code, Git, Github, Excel.
- Libraries:** LangChain, Scikit-Learn, FAISS, Newspaper3k, NLTK, OpenAI API, Gym, Pandas, NumPy, Streamlit.
- Languages:** Fluent in written and spoken French and English.
- Certifications:** Stanford ML Specialization, Microsoft Azure AI Fundamentals, Bloomberg Market Concepts.
- Interests:** Long-course triathlon, marathon swimming, bikepacking, boxing, graphic design, language learning.