

# Ghazi Gharsallah

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## Technical Skills

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- Programming Languages: Python, R, C++, SQL
- Frameworks & Tools: TensorFlow, PyTorch, LangChain, Git, FastAPI, OpenAI API, AWS (Lambda, EC2).
- Areas of Expertise: Agentic AI, Generative AI, ML, DL, RL, Transformers.

## Work Experience

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- Principal Agentic AI Developer, CDPQ, CA.** Jan. 2025 - Present  
Leading development of multi-agent solutions and RAG systems integrating LLMs and tool use to automate workflows across multiple teams (LLM Agents, MCP Servers). Designing and deploying CI/CD pipelines.
- Teaching Assistant, ÉTS Montréal, CA.** Jan. 2024 - Present  
Conducted labs and courses (ELE462, ELE452, ELE767), guiding students on implementing projects.
- AI Research Intern, JACOB, Montréal, CA.** Oct. 2022 - Feb. 2023  
Built a data-driven property valuation system using ML-based encoders on real estate datasets.
- NLP Engineer, Kinhub, London.** Jan. 2021 – Aug. 2021  
Developed and deployed RASA Chatbots, NLP recommendation systems using Bert models and AWS.
- Visiting Student, University of California Irvine, Irvine, USA** Feb. 2020 - Jul. 2020  
Worked on AI classifiers' robustness to adversarial attacks and proposed effective solutions for CNNs.

## Education

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- Ph.D. in Electrical Engineering, ÉTS Montréal** Sept. 2021 - Dec. 2025  
Thesis: Multimodal Collaborative MARL for 6G V2X Digital Twin. Mentored junior researchers. *GPA: 3.96/4.3*
- IUT MSc/PhD student, McGill University** Sept. 2020 - Aug. 2022  
Courses: Network Science, Optimization and Optimal Control, Wireless Communications.
- M.Sc. in Electrical Engineering, ÉTS Montréal** Sept. 2020 - Aug. 2021  
Research: DL for Radio Resource Management in 6G V2X Networks. *GPA: 3.84/4.3*
- Bachelor of Engineering, École Polytechnique de Tunisie** Sept. 2017 - Aug. 2020  
Main courses: Stochastic Processes, Mathematical Optimization, Data Analysis, Machine Learning, *Grade: 18/20*.

## Selected Publications

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- [2] G. Gharsallah and G. Kaddoum, "MVX-ViT: Multimodal Collaborative Perception for 6G V2X Network Management Decisions Using Vision Transformer," in IEEE OJCS (2024), [Paper Link] [Project Link]
- [1] G. Gharsallah and G. Kaddoum, "ViT LoS V2X: Vision Transformers for Environment-aware LoS Blockage Prediction for 6G Vehicular Networks," in IEEE Access (2023), [Paper Link]

## Projects

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- Agentic News System**  
Developed a multi-agent AI platform that autonomously analyzes financial news to generate trading insights.
- MVX: Configurable and Scalable Co-Simulation Framework**  
Built MVX, the world's first configurable co-simulation framework for 6G V2X digital twin simulations. [Link].
- Generative AI for 6G V2X Network Traffic Simulation**  
Built a generative AI-powered digital twin solution to simulate realistic 6G V2X network traffic.

## Extracurricular Activities

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- **YouTube Content Creator**, Productivity podcast host. Built 100k+ community 2023.
- **IEEE ÉTS Montréal Chapter**, Website manager, 2021.
- **Association des Jeunes Polytechniciens**, President, 2018.
- **Radio Animator**, Animated a section of a radio program in a national radio station, 2017.

## Awards & Scholarships

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- Mitacs Accelerate Fellowship, 2022 | Mitacs Globalink Research Award, 2019.
- ÉTS Montreal | Exemption from M.Sc. & Ph.D. Tuition Fees, 2020 - 2025.
- UCI (University of California, Irvine) | Visiting Student Fellowship, 2020.
- Tunisian Engineering Excellence Scholarship (Top 1%, 2017–2020).