**Vishnu Garigipati**

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**BACKGROUND**

Undergraduate computer science student passionate about machine learning, information theory and interdisciplinary research. Experienced in research and practical ML deployment with a strong interest in contributing to impactful data-driven projects. AI for Science Commercialization, LLM Applications, Full-Stack SaaS, Embedded AI, Open-Source Collaboration

**EDUCATION**

**Concordia University** –, Montreal, Canada January 2021–December 2025

*Bachelor of Computer Science*

**Marianopolis College** – Mathematics and Finance, Montreal, Canada 2019– 2022

*Diploma of College Studies DEC*

**WORK EXPERIENCE**

**Ecole Technologie Superieure,** Montreal Canada July 2025 – present

*AI Research Intern*

* Conducted research on online learning methods for embedded systems in data science contexts
* Authored paper, intended for publication in ICML journals and other major conferences
* Deployed lightweight ML models on Arduino nano to emulate IOT devices in real life scenario
* Collaborated with a team of researchers to analyze data and develop innovative computational models.

**Ericsson,** Montreal Canada January 2024 – September 2024

*Machine Learning Intern*

* Authored drafts for a patent application and a paper, “On Entropy-Based Distributions”, intended for publication in IEEE journals
* Reviewed over 10 scientific research papers to gather insights relating to information theory and statistical mechanics.
* Deployed machine learning algorithms tailored for the telematics domain, enhancing data-driven insights and predictive capabilities using CI/CD pipelines.
* Integrated automated workflow processes to streamline product deployment, for integration end to end.

**TECHNICAL SKILLS**

**Known Languages & Tools**

* Languages: Python, Java, JavaScript, Prolog, C, C++, SQL
* Tools & Libraries: Git, Gitlab, Numpy, Pandas, Scikit-Learn, PyTorch, Tensorflow, Kubernetes, Docker, AWS, Azure
* Web Development, HTML, CSS, React.Js

**PROJECTS AND RELEVANT COURSES**

**Knowledge Distillation on VAE (**[**https://github.com/vishnucanada/Knowledge-Distillation**](https://github.com/vishnucanada/Knowledge-Distillation)**)**

* Analysis of response-based knowledge distillation on variational auto encoders
* Demonstrated key improvements using on student model with such technique

**Minimax vs Reinforcement Learning (**[**https://github.com/vishnucanada/MiniMaxRL**](https://github.com/vishnucanada/MiniMaxRL)**)**

* Comparison of Minimax and Reinforcement learning in a solved game
* Concluded that Minimax algorithms will find solved solution in solved games outperforming RL models

**Personal Website (**[**https://vishnucanada.github.io/personal-website/**](https://vishnucanada.github.io/personal-website/)**)**

* Developed a personal website to host a portfolio and resume, demonstrating web development skills
* Created with the intention of demonstrating interest of personal projects outside of school.

**Relevant Courses**

Object-Orientated Programming, Web Programming, Data Analytics, Artificial Intelligence, Neural Networks, Cybersecurity

**SKILLS**

**Language Skills**: Fluent English, Fluent French