

# JACQUES THIBODEAU

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**ML Engineering Skills:** Python, PyTorch (+ Lightning), Pandas, Huggingface, Docker, Wandb, Label Studio, Streamlit, AWS, Azure, GCP, GitHub Actions

## WORK EXPERIENCE

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- 5/2022 – Present           **SERI MATS**
- Model editing and causal tracing with GPT-2/GPT-J. [Upcoming post](#).
  - [Upcoming post](#) on chain of thought with language models.
  - Spent time reading tons of papers and alignment forum posts. Currently facilitating a reading group on AGISF 201 for new MATS scholars.
  - Mentoring new people in the field via the AI Safety Mentors and Mentee program.
- 1/2022 – 5/2022           **AI Safety Camp**
- Created a [dataset](#) of AI alignment texts (papers, blogs, Alignment Forum, etc) with my team.
  - Fine-tuned GPT-J on the dataset.
  - Currently working on paper and Alignment Forum post based on dataset analysis.
- 2/2020 – 1/2022           **Canada Energy Regulator, Data Science Team: Data Scientist (NLP)**
- Worked collaboratively with the team to **extract tables and figures from PDFs**, and **helped build a data search tool** for the organization, companies, scientists, and the public.
  - Experimented with Snorkel and Huggingface (Zero-Shot and BERT) for data labelling.
  - Took initiative to teach and help my team use **code reviews** and Huggingface in projects.
- 6/2019 – 12/2019       **Government of New Brunswick, Health: Data Analyst & Strategist**
- Improving the mental health and addictions sector with data analysis and efficiency gains.
- 7/2019 – 10/2019       **Montreal AI Ethics Institute: Research Intern**
- Conducted research on the state of AI Ethics.
- 6/2018 – 6/2019       **Government of New Brunswick, Executive Council Office: Innovation Strategist & Facilitator**
- Founding member of Social Innovation Lab. Worked on increasing effective policy innovation and acted as liaison or mentor for stakeholders at all levels of government.
- 7/2017 – 9/2017       **Université de Moncton: Deep Learning Researcher**
- Completed a literature review for using deep RL for CV. Used GCP to train ML models.
- 2013 – 2015           **Université de Moncton: Physics Researcher**
- (1/2015 - 9/2015) Invented thin film that controls the polarization of light. *Published paper.*
  - (5/2014 - 9/2014) Fabricated films to be used to protect satellites. *Published paper.*
  - (5/2013 - 9/2013) Used optical systems to fabricate and test a thin film. *Published paper.*

## SELECTED PERSONAL PROJECTS

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- [A Case Study on Weakly Supervised Learning](#): Chosen as a **top project** in the [Full Stack Deep Learning](#) course of over 300 professionals. Deployed **NLP** models on **Azure** and used the deployed models for text data labelling. (PyTorch, **Huggingface**, Snorkel)
- [Map Floodwater with Satellite Imagery](#): Trained multiple models with **PyTorch Lightning**.

## EDUCATION

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9/2014 – 5/2018           **Université de Moncton, M.Sc., Physics,**  
9/2010 – 4/2014           **Université de Moncton, B.Sc., Physics**