Minnie Nguyen

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EDUCATION

University of Edinburgh — Edinburgh, UK
Master of Science in Artificial Intelligence (Distinction) — Sep 2024 – Aug 2025

- **MSc Thesis**: Evaluation framework to measure text & image reliance in multilingual Vision-Language Models [paper]
- **Research Project**: Data-centric approaches for Marine Debris Detection using YOLO/OpenCV [paper]
- **Research Review**: Leveraging auxiliary languages for low-resource Neural Machine Translation [paper]

McGill University — Montreal, Canada
Bachelor of Science in Mathematics and Computer Science — Sep 2015 – May 2019

- **Awards**: Tomlinson Award for Mentoring (2017, 2018, 2019), Major Entrance Scholarship (2015)

EXPERIENCE

Got It AI — Hanoi, Vietnam (Remote US)
Machine Learning Research Engineer — Feb 2023 – May 2024

- Fine-tuned enterprise LLMs (Mistral, LLaMA, Flan-T5) using LoRA-based distillation to build lightweight conversational AI agents, achieving 90%+ accuracy in context-aware QA.
- Developed AI safety guardrails using multi-task training with chain-of-thought reasoning, improving hallucination detection recall by 21% and ensuring reliable LLM outputs for end users.
- Curated high-quality evaluation datasets from client knowledge bases and benchmarked state-of-the-art LLMs (GPT, Gemini, Mixtral) on custom QA tasks to guide model selection.
- Built an active learning pipeline to retrain models on user interactions and edge cases, reducing error by 2-5% per iteration and driving continuous model improvement.
- Collaborated cross-functionally to deploy AI systems to production on GCP, optimizing inference latency with vLLM and quantization.

Intact Insurance, Data Lab — Montreal, Canada
Data Scientist — Sep 2020 – Dec 2022
Data Scientist Intern — May 2020 – Aug 2020

- Fine-tuned BERT-based models for text classification and NER with 90%+ accuracy to automate insurance claim analysis at scale.
- Led development of domain-specific language models by further pretraining on insurance documents, improving F1-scores in 3+ downstream NLP projects by 5-15%.
- Implemented a stacking ensemble pipeline (LSTM, XGBoost, LightGBM) in Python with advanced temporal feature engineering to forecast claim payment amounts.
- Developed an internal ML-assisted annotation and text mining interface to accelerate data labeling workflows.

Dynamicly Inc. — Montreal, Canada
Data Scientist — Oct 2019 – Apr 2020
Data Scientist Intern — Jun 2019 – Sep 2019

- Designed and built a NLU system using text embeddings and spaCy/NLTK to power virtual assistants, outperforming Microsoft LUIS by 29% in intent classification and entity extraction accuracy.
- Collaborated with engineering and product teams to integrate models into production workflows as a Django API serving multiple virtual assistant applications.
- Created analytics dashboards in Power BI to monitor model performance and extract user interaction insights, enabling data-driven improvements to the NLU pipeline.

SKILLS

Programming: Python, Java, Bash, SQL, JavaScript, HTML/CSS
Libraries: PyTorch, HuggingFace, PEFT, OpenAI, Scikit-Learn, Pandas, NumPy, OpenCV, Ultralytics, Matplotlib
Tools: Git, Jupyter, GCP, CUDA, vLLM, Docker, W&B, MLflow, Power BI
Expertise: NLP, LLM Fine-tuning, Model Evaluation, Generative AI, Multilingual AI, Vision-Language Models
Languages: English (fluent), Vietnamese (fluent), French (intermediate)