Gregory Price

Bilingual Machine Learning & Software Engineer · French · English · Secret II Clearance

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Professional Summary

A highly motivated AI Engineer and Software Engineer with a strong background in deep learning, NLP, and cloud computing. Recently completed a Master's in Computer Science with a concentration in Applied AI. Experienced in developing AI and ML models, optimizing performance, and integrating AI solutions into complex systems. Passionate about leveraging AI to shape the future. Loves to play volleyball!

Skills

- **Machine Learning & AI:** Deep Learning, Natural Language Processing (NLP), Generative AI, Transformers, CNNs, SVMs, KNN, LLMs (GPT, BERT, RoBERTa, LLaMA), Computer Vision
- **Programming & Software Development:** Python, R, Java, C++, OOP, Git, Agile, CI/CD, REST APIs, SQL
- **Data Analysis & Visualization:** Data Cleaning, Data Modeling, Statistical Analysis, Pandas, NumPy, Matplotlib, Seaborn
- **Cloud & DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Terraform, CI/CD pipelines
- **Tools & Frameworks**: PyTorch, TensorFlow, Scikit-Learn, Hugging Face, CUDA, OpenCV

Education

Master of Computer Science (MCS), Concentration in Applied Artificial Intelligence

University of Ottawa | 2023 – 2024 | *GPA: 4.0*
- Developed hyperparameter tuning methods for prompt engineering in NLP tasks
- Relevant Courses: Deep Learning, Machine Learning, NLP, Reinforcement Learning, AI for Cybersecurity, Knowledge Representation, NLP in Software Engineering

Bachelor of Applied Science (BASc) in Software Engineering

University of Ottawa | 2018 – 2022 | *Magna Cum Laude, GPA: 3.9*
- Merit Scholarship recipient for academic excellence (2019-2022)
- Relevant Courses: Intro to AI, Software Project Management, Data Structures & Algorithm

Professional Experience

Mitacs Accelerate Fellowship

University of Ottawa | May 2024 – August 2024
- Developed a novel hyperparameterization tool for prompt engineering, enhancing AI model performance based on leading-edge research
- Led the integration of emerging prompt engineering techniques (CoT, Auto-CoT, PoT) into practical AI solutions
- Collaborated with researchers and industry partners (Azure DevOps) to publish state-of-the-art research (NIER ICSE 2025)

Volunteer AI Research Scientist

AImpower | May 2023 – Present
- Benchmarked top machine translation (AWS, Azure, Google Cloud and GPT) for usability on dyslexic style text; discovered performances drops from 10-20% for metrics such as WER, BLEU, BLEURT, and COMET.
- Co-authored a paper submitted to NeurIPS24, collaborating with Dr. Shaomei Wu
- Conducted statistical analysis and data visualizations using Python (Chi-squared, Wilcoxon, Matplotlib, Seaborn)

Data Scientist

FINTRAC | May 2022 – August 2022
- Initiated a CI/CD pipeline for multiple deep learning models, increasing address information reliability by 15%
- Trained and finetuned (using Python) transformer models, base models and tokenizers (RoBERTa from Transformers library) on +50,000,000 samples
- Deployed a transformer-based model for classification tasks achieving F1 score of 97%, resulting in cost savings of $250,000 annually

Data Analyst

MNP | April 2021 – August 2021
- Audited and reviewed multiple projects related to IoT and IT infrastructure that provided insights on optimizing projects
- Managed several auditing projects in unison with contracts worth upwards of $50,000

Machine Learning Engineer

Bauer Hockey | January 2020 – March 2020
- Built a custom video processing software using Python to annotate data (labelling time was reduced by half)
- Collected, cleaned, and processed data from IMUs and video footage (Pandas)
- Optimized different machine learning algorithms using Scikit-learn for classifying (SVMs demonstrated strongest results)

Teaching Assistant

University of Ottawa | September 2020 – August 2024
- Guided over 300 students across multiple courses in both French and English, including AI and Software Engineering classes.
- Designed and reviewed exams, assignments, and labs to reinforce core AI, software engineering and data science concepts

Notable Projects (GitHub)

Ottawa Autonomous Vehicles Group: Developed an object detection system using YOLOv3, securing second place in the CASPI Student Snowplow Competition

Project X uOttawa: Collaborated on a multi-modal reinforcement learning model using Python to identify depression among Twitter users, utilizing NLP, CNN, and graph learning techniques

Additional Experience

- **IT Summer Intern, CAE** (May 2019 – August 2019): Built a C# auction application for IT equipment