Mohamad Ahmad

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PROFILE

I'm an ambitious self-starter that has founded and scaled six-figure businesses since the age of 20. With a CGPA of 9.85/10 in mathematics, I have an insatiable desire to master complex topics. I thrive in ambiguous environments where I solve open-ended problems with tight-knit teams. With my ability to learn quickly, I can become a valuable asset in any technical role.

SELECTED EXPERIENCE

BLUEGEM.AI (4 employee startup)   Ottawa, ON
Co-founder, Lead Machine Learning Engineer   Jun 2023 –
- Provided end-to-end ML consulting, from data preprocessing to **model deployment**, for clients across sectors like aerospace and government, consistently exceeding performance benchmarks and optimizing inference speeds by up to **40%.**
- Orchestrated the creation of **70+ technical courses**, training **10,000+ global learners** across ML, statistics, and mathematics, empowering them to grasp complex state of the art ML techniques.
- Delivered in-demand professional workshops on **Python, R**, PowerBI, and ML, cementing BlueGem's reputation as a leader in technical training and consulting.

GLOBAL AFFAIRS CANADA   Ottawa, ON
Machine Learning Consultant   Jan 2023 – Jun 2023
- Led high-stakes optimization initiatives, deploying **ML models** that efficiently processed and analyzed data from **100+** countries, driving strategic decision-making at a global scale.
- Engineered sophisticated statistical models and utilized **linear programming** to optimize global staffing configurations.
- Pioneered internal capacity building, training cross-functional teams in advanced ML methodologies, enabling them to autonomously apply predictive analytics in critical **global operations**.

SAXONY.CO (6 employee startup)   Ottawa, ON
Co-founder, CEO   Jun 2021 – Jan 2023
- Drove **exponential business growth** through data-driven financial strategies, implementing **Python-based automation** and **SQL** live integration to optimize logistics and manage **5,000+** customers with lightning-fast fulfillment.
- Directed all facets of business management, including tax structure optimization, financial planning, and logistics, transforming saxony.co into a scalable and data-centric enterprise netting **multiple six figures**.

CAE   Ottawa, ON
Data Science Consultant   May 2022 – Sep 2022
- Designed and implemented **Markov Chain Monte Carlo** (MCMC) simulations for comprehensive failure and risk analysis across **20,00+ simulated environments**, increasing fault detection accuracy by **80%.**
- Applied **parallel computing** techniques to optimize model deployment, reducing runtime by **40%** and enhancing the overall efficiency of the risk classification pipeline.
- Successfully delivered tailored **staff training** on integrating ML into core operations.

EDUCATION

UNIVERSITY OF OTTAWA   Ottawa, ON
Honours Bachelor of Science (CO-OP)   Sep 2019 – Apr 2024
> Major in Mathematics; Minor in Statistics
> **Cumulative GPA: 9.85/10**
> Awards: **Shopify Scholarship**, Dean's List (2019-2024), Victor Linis Math Scholarship, Startup Garage Scholarship.

LICENSES & CERTIFICATIONS

Amazon Junior Software Developer Professional Certificate   Sep 2024 – Nov 2024
> + Data structures and algorithms, Java, SQL, Full stack web development, SDLC.

DeepLearning.AI Generative AI with Large Language Models   Sep 2024 – Oct 2024
> + PEFT, LoRA, full fine-tuning, model pre-training, model evaluation.

KEY FRAMEWORKS

Python, Pandas, TensorFlow, PyTorch, Keras, Sci-kit learn, R, Java, MATLAB, SQL, SAS, Git, Docker, LaTeX, PowerBI.