

Kiruthika Subramani

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Education

University of Montreal (MILA)

Master's in Computer Science

Montreal, Canada

Aug 2024 - March 2026

M. Kumarasamy College of Engineering

B. Tech in Artificial Intelligence and Data Science

Tamilnadu, India

Apr 2020 - May 2024

Skills

- **Languages & Tools:** Python, R, Java, SQL, Git
- **ML & AI:** Supervised/Unsupervised Learning, Feature Engineering, Model Evaluation, A/B Testing, Statistical Analysis, Predictive Analytics, Regression Modeling, Transformers, LLMs
- **NLP & GenAI:** Text Classification, Prompt Engineering, Chatbots, Semantic Search, RAG
- **Cloud & MLOps:** AWS (SageMaker, Bedrock, Lambda), GCP (Vertex AI, BigQuery), Docker, CI/CD
- **Cloud Infrastructure & Networking:** VPC, Subnetting, Route Tables, Load Balancing, Technical Troubleshooting, Packet loss troubleshooting, Container Networking, Ingress/Egress, Packet capture, Packet analysis

Work History

Data Scientist Intern

Aug 2025 – Present

Bell — GCP, GraphRAG, Data Analytics, FineTuning, LLMops

Montreal, Canada

Building and optimizing a GCP-deployed GraphRAG pipeline for contract analysis, focusing on preprocessing, model analytics, and scalable deployment to accelerate and enhance legal insight extraction.

Cloud Consultant Intern [AI/ML]

May 2025 – Aug 2025

Amazon Web Services — AWS, Serverless, Security, Geospatial AI, Agentic AI

Toronto, Canada

Built a secure geospatial data enrichment pipeline using 15 AWS services. Utilized Bedrock and SageMaker for data preparation and enrichment across 82K+ records with real-time updates every 5 seconds. Reduced API latency by 65%, created 8 reusable serverless components, and integrated 5 diverse data sources.

Generative AI Engineer Intern

Jan 2025 – Apr 2025

Certkor.ai — Python, Multi-Agentic AI Systems, LLMs, Responsible AI, Compliance Automation

Montreal, Canada

As Mila Scientist-in-Residence, developed a MOA-based multi-agent AI framework to enhance Responsible AI compliance. Improved regulatory assessment speed by 11.8%, reduced manual model adjustments by 13.2%, and boosted cross-border risk detection by 9.5%.

Mitacs Globalink Research Intern

Jun 2023 – Sep 2023

ÉTS — Computer Vision, Imitation Learning, Reinforcement Learning, MLOps

Montreal, Canada

Led a YOLOv8-based object detection project at CHUM Hospital's construction site; achieved 94.8% accuracy and cut annotation time by 35%. Explored MAPPO and behavioral cloning to train 5 agents in simulation for dynamic goal-reaching, improving convergence by 21%.

Founder and Administrative Head

May 2020 – Jul 2022

StepUp, Skill Building Startup — Educational Technology, Program Management

Tamilnadu, India

Founded skill-building startup with partnerships across 19 educational institutions, delivering free coding workshops to 700+ individuals in underserved communities and earning the #IamRemarkable award for educational technology leadership.

Project Management Experience

AI Program Strategist (Part-Time)

Aug 2024 – Dec 2024

Musitechnic Formation — AI Program Design, Operational Strategy, Pedagogical Consulting

Montreal, Canada

Led the AI program launch by coordinating academic and technical teams, reducing inefficiencies by 18% and ensuring timely, goal-aligned delivery.

Projects

- **LLM–SciBERT Classification Pipeline** — Developed scalable ML solution using hybrid SciBERT model with rigorous model evaluation, achieving measurable business impact through automated classification of 5,000+ papers
- **Clinical Risk Prediction System with LLM Integration** — Built scalable ML pipeline for pregnancy risk forecasting with model monitoring capabilities, delivering measurable business impact through 23% improved diagnostic precision.

Professional Certifications

- Google Cloud Certified – Professional Machine Learning Engineer [↗](#)
- Google Cloud Certified – Associate Cloud Engineer [↗](#)
- AWS Certified Machine Learning – Specialty [↗](#)
- AWS Certified Solutions Architect – Associate [↗](#)
- Certified Associate in Project Management (CAPM) — PMI [↗](#)

Professional Highlights

- Google Developer Expert for Artificial Intelligence
- IBM Dual Champion for Data AI and IBM Z Ecosystem
- Google Cloud Champion Innovator — AI/ML
- Speaker at Techxchange 2025, Florida, USA
- Top Influencer 2024 Badge — Recognized by IBM for outstanding engagement and advocacy

Highlights

- **Global AI Talks** — Delivered 205+ technical talks worldwide, including a guest speaker session at University of Toronto. 2024 [↗](#) .
- **Prolific Blogger** — Published 100+ Medium blogs on AI, data, and cloud, building a broad technical audience. [↗](#)
- **Series Creator: Cup of Coffee** — Authored a popular LinkedIn article series simplifying ML and LLMs for 5,000+ professionals. [↗](#)
- **Gemma 3 Recognition** — Spotlighthed by Google Cloud Tech’s YouTube channel for applied GenAI contributions. [↗](#)
- **AI Consulting, Vector AI Institute** — Mentored multiple startups during the Interpretability Bootcamp and DaRMoD 2025 as a volunteer Technical Specialist. [↗](#)

Code Portfolio

A portfolio of over 100 projects on GitHub showcasing a passion for problem solving [↗](#)

Books Authored

Generative Artificial Intelligence - Unleashing Imagination. Amazon KDP, May 2023 [↗](#)
AI for a Better Tomorrow - Algorithms in Action. MKSES Publications, May 2022 [↗](#)

Global AI Engagements and Developer Outreach

Canadian DevFest AI Series [↗](#)

Connected with 3,000+ developers across six Canadian provinces, delivering demos on Explainable AI, RAG, Data Storytelling, and Model Chaining while promoting collaboration and innovation

Advanced AI Training Programs

- Neuro-Symbolic Artificial Intelligence Summer School — IBM
- Winter Cohort — Trustworthy, Responsible AI for Humanity (TRAIL) for Professionals
- AWS ProServe and WWPS (Worldwide Public Sector) Consulting Excellence Program - Amazon Learn

Agentic AI Applications

- Live the Leadership Principles — Detects Amazon Leadership Principles from daily logs [↗](#)
- Calories Intake Finder — Food image to calorie and macro voice advice [↗](#)
- Prince Rescuing Princess — Multi-agent planning simulation [↗](#)

Leadership and Activities

- Women Techmakers Ambassador
- DeepLearning.AI Community Organizer
- Google Developer Student Clubs Lead
- IBM Z Systems Captain – India
- Intel Student Ambassador for Artificial Intelligence

Key Accomplishments

- Women in Artificial Intelligence Scholarship Award — Mila (2025)
- Winner — Sustainable AI Aviation Challenge — Bombardier & TCS (2025)
- Best Outgoing Student Award — M. Kumarasamy College of Engineering (2024)