Rafik M. Chemli - Sr Data Scientist

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Skills

- Machine Learning: Expertise in end-to-end ML pipelines, including model development, evaluation, and deployment.
- AI Research: Published research on privacy-preserving machine learning and Federated Learning for the United Nations.
- Programming & Cloud: Proficient in Python, SQL, GCP, Azure, with a focus on secure data solutions.
- **Privacy and Security**: Implemented Differential Privacy techniques, Generated Synthetic Data and led projects on privacy-preserving technologies.
- Collaboration: Experienced leading projects with cross-functional international teams (eg: CIFAR, UN).

Experience

Senior Data Scientist — Government of Canada, Statistics Canada

2021 - Present

- AI Research & ML Expertise: Developed automated synthetic data generation pipelines, employing advanced AI models like TimeGan. Conducted research on privacy-preserving techniques, collaborating with CIFAR and United Nations Privacy Enhancing Techniques Lab.
- Cloud Solutions: Deployed ML models and data pipelines on Google Cloud and Microsoft Azure, ensuring robust and scalable implementations.
- Cross-Functional Leadership: Led international teams on projects focusing on Privacy Enhancing Technologies, and contributed to prominent AI and health conferences.
- Mentoring Junior Team Members: Mentored and guided junior team members, in developing their skills and successfully completing their projects.

Data Scientist — Galenvs Sciences

2020 - 2021

- ML Model Development: Enhanced COVID-19 testing kits through the optimization of laboratory experiments, employing techniques such as Modeling, Monte Carlo Simulation and Operational Research.
- Interactive Dashboards: Created a real-time, flexible web application for ML predictions, improving the visualisation and analysis of laboratory experiments and model performance.

Education

Master's Degree, Bioinformatics

2018 - 2019

Université du Québec à Montréal, Montréal, Canada

Publications & Certifications

- Privacy-Preserving Machine Learning and Federated Learning: Co-authored research paper for the United Nations on privacy-preserving federated machine learning.
- Machine Learning in Production: Issued by DeepLearning.AI in 2024.
- Microsoft Azure Machine Learning: Issued by Microsoft Azure in 2024.