

MOSLEM SHOKROLAHI

247 Bath Rd., Kingston, ON | moslem.sh.99@gmail.com | (613) 449-7401 | www.linkedin.com/in/moslem-shokrolahi-22a48575 | <https://github.com/Moslem-Sh21> | <https://scholar.google.com/citations?user=TZFTpD8AAAAJ&hl=en>

Summary

Deep learning expert with 7 years experience in areas including generative models, lifelong learning, and machine unlearning. Proficient in deploying vision systems using OpenCV, PyTorch, with hands-on experience in Edge AI platforms.

Experience

AI CONSULTANT | KNOWQUEST | TORONTO | SEPT. 2023 – PRESENT

- Improving the core feedback and recommendation system with an LLM-facilitated RAG (Retrieval-Augmented Generation) framework. The enhancement brought a 23% improvement in Mean Reciprocal Rank (MRR) and considerably enhanced user engagement.

RESEARCH ASSISTANCE | UAI LAB | QUEEN'S UNIVERSITY | MAY 2021 – PRESENT

- Designed a robust framework for safe and fair diffusion-based image generation, enabling high-quality and ethically responsible image outputs.
- Developed continual learning algorithms based on deep metric learning to mitigate catastrophic forgetting, achieving state-of-the-art classification performance with ResNet.
- Proposed novel machine unlearning techniques for efficient data erasure from trained models.

MACHINE VISION ENGINEER | SAESPADAN | ISFAHAN | IRAN | SEPT. 2018 – MAY 2021

- Designing a real-time machine vision system for stone classification, leveraging an ensemble of ResNet and EfficientNet models. Achieved a 40% reduction in human error and about 30% increase in throughput by using weighted averaging of model predictions.

Education

PH.D. IN COMPUTER ENGINEERING | MAY 2021 | QUEEN'S UNIVERSITY, KINGSTON, ON

M.SC. IN COMMUNICATION SYSTEMS | SEPT. 2015 | IUT | ISFAHAN, IRAN

Skills & Abilities

- Programming Languages:** Python (expert), C# (proficient), C++(proficient)
- Frameworks and Tools:** PyTorch, TensorFlow, OpenCV, scikit-learn, SQL, AWS, Git, MATLAB
- Machine Learning Expertise:** Diffusion Models, Safe and Fair Ge. AI, LLMs and Agents, RAG

Selected Publications

- Shokrolahi, S.M., Kim, I.M. (2025).** *Combating Inter-Task Confusion and Catastrophic Forgetting by Metric Learning and Model Reuse*. Transactions on Machine Learning Research.
- Shokrolahi, S.M., Kim, I.M. (under review).** *Interpretable and Unbiased Text-to-Image Generation by Diffusion Models with Background Fidelity*. Submitted to NeurIPS 2025.
- Shokrolahi, S.M., Kim, I.M. (under review).** *Erasing the Past: Zero-Shot Machine Unlearning with Erasing Samples*. Submitted to IEEE Transactions on Artificial Intelligence.