

SAJAD DADGAR

📍 Calgary, AB, Canada

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Skills

- **Programming Languages:** Python, Java, SQL, JS, C/C++, R, Matlab
- **Libraries:** PyTorch, TensorFlow, Keras, Numpy, Pandas, Scikit-Learn, NLTK, OpenCV
- **AI & ML Skills:** Machine Learning, Transfer Learning, LLMs, LangChain, NLP, Computer Vision, MLOps
- **Databases:** PostgreSQL, MySQL, MongoDB, Oracle
- **Web Technologies:** Django, Spring, Node.js, HTML, CSS, JavaScript, jQuery, React
- **Cloud Technologies:** Amazon AWS
- **Environments and Tools:** Git, Docker, CI/CD, Streamlit, Postman, MacOS, Linux (Ubuntu), Windows
- **Soft Skills:** Problem-Solving, Team Work, Communication, Leadership, Project Management, Self-Learning

Education

University of Calgary, M.Sc. in Computer Science

2023 – 2025

- **GPA:** 3.85 / 4.0

- **Thesis:** Developed a novel policy mining approach from incomplete access logs, using MaxSAT to extract DTE policies for improved explainability and reliability, and GNNs to enhance efficiency and scalability.

Amir Kabir University of Technology, B.Sc. in Computer Science

2016 - 2021

- **GPA:** 3.75/4.0

- **Thesis:** Identify misinformation about Covid-19 on social media.

Work Experience

ML/AI Researcher, Cybersecurity Research lab in UofC, Canada

Sep 2023 – Sep 2025

- Developed a policy mining approach using MaxSAT to extract interpretable DTE policies from incomplete logs, enhancing explainability and reliability.
- Leveraged GNNs to accelerate policy extraction and improve computational efficiency. Also, evaluated performance through experiments on benchmark datasets, assessing runtime, generalization, and scalability.

Data Scientist, Digikala

Mar 2022 – Dec 2022

- Implementing machine learning models, analyzing large-scale customer and product data, and delivering insights that enhanced personalization and product development.

Data Science Research Assistant, Remote, University of South Australia

Jul 2021 – Mar 2022

- Designed and evaluated machine learning models to analyze large datasets and extract actionable insights. Published two papers as first-author demonstrating innovative applications of data-driven approaches.

Software Engineer Intern, Rahnema Company, Iran

Jul 2019 – Sep 2019

- Three months of learning and developing a mobile application using Spring, React Native, and etc.

Teaching Experience

Data Structures, Algorithms, and Their Analysis - UofC

Aug 2025 - Nov 2025

Explorations in Artificial Intelligence and Machine Learning - UofC

May 2025 - Jul 2025

Introduction to Software Engineering - UofC

Sep 2024 - May 2025

Techniques for Numerical Computation - UofC

Jan 2024 - May 2024

Web-Based Systems - UofC

Aug 2023 - May 2024

Artificial Intelligence - AUT

Feb 2021 - Jul 2021

Projects

Engagehub: AI-Enhanced Public Engagement System	 Mar 2025
• Achieved 4th place in the Urban Systems hackathon by developing an AI-powered survey platform with voice input and LLM-based chatbot for real-time feedback analysis using NLP, speech-to-text, and web scraping.	
Foreign Affairs Data Visualization	 Dec 2023
• Developed a data visualization project for a CANIS Data Visualization and Foreign Interference hackathon, focusing on extracting and visualizing data related to Chinese media influence on the Canadian government.	
MFCC Speech Recognition	 Jun 2020
• Implemented a speech recognition system for the "Deep Learning" course project using MFCC and CNNs. The project involved developing various models and processing audio data to enhance recognition accuracy.	
Image Reconstruction via Hopfield Networks	 May 2020
• Implemented Hopfield Networks from scratch to effectively reconstruct incomplete images by iteratively converging to stored patterns, demonstrating robust associative memory capabilities.	
Call of Typing – Website for Typing Competition	 Jun 2020
• Developed a typing competition website enabling users to enhance typing and listening skills through text and audio exercises, with features like profile customization, group contests, and a dynamic ranking system.	
Cando- Mobile Application for Auction	 Sep 2019
• Developed a mobile app for auction with Spring and React Native, featuring live auction bidding, user account management, and real-time notifications for an engaging user experience.	
Data Analyzing of Digikala's Dataset (Amirkabir Data Mining Cup 2018)	 Jul 2019
• Analyzed Digikala data to uncover trends and support strategies for growth.	
Desktop Education Portal	 Mar 2018
• Developed a desktop application for students, enabling them to enroll in courses and access various functionalities similar to university portals, streamlining their academic activities and administrative tasks.	

Publications

- Dadgar, S., & Prof. Fong, P. (2025). **Mining Attributed DTE Policies**. (Submitted to EuroS&P conference)
- Dadgar, S., & Dr. Neshat, M. (2025). **Technical report of the machine learning methods application for wave energy prediction**. (Accepted at SDEWES conference)
- Dadgar, S., & Dr. Neshat, M. (2022). **A Novel Hybrid Multi-Modal Deep Learning for Detecting Hashtag Incongruity on Social Media**. (Published by Sensors Journal)
- Dadgar, S., & Dr. Neshat, M. (2022). **Comparative Hybrid Deep Convolutional Learning Framework with Transfer Learning for Diagnosis of Lung Cancer**. (Accepted at SoCPaR conference, Published by Springer)
- Dadgar, S., & Prof. Ghatee, M. (2021). **Checkovid: A COVID-19 Misinformation Detection System on Twitter Using Network and Content Mining Perspective**

Awards and Achievements

International Graduate Tuition Award (IGTA)	Jul 2023
International Graduate Recruitment Award (IGRA)	Jun 2023

Certificates

Develop Generative AI Applications - IBM	Generative AI with Large Language Models - DeepLearning.AI
Machine Learning in Production - DeepLearning.AI	Machine Learning - Stanford Online
Data Engineering Professional Certificate - DeepLearning.AI	Deep Learning A-Z™ - Udemy
Four-course series: Intro to Data Engineering, Source Systems & Data Ingestion, Data Storage & Queries, Data Modeling & Transformation	Machine Learning A-Z™ (Data Science) - Udemy

Volunteering

Vice President of Finance - Computer Science Graduate Society (CSGS)	May 2024 - May 2025
Head of Informatics and Contests of Students' Scientific Association - AUT	Mar 2018 - Mar 2019