SAJAD DADGAR

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EDUCATION

Master of Science in Computer Science (M.Sc.) *2023-2025*
University of Calgary, Calgary, AB, Canada
CGPA: 4/4
Selected Courses: Networking Systems; Fundamentals of Network Analysis and Data Mining; Access Control; Algorithms for Distributed Computation

Bachelor of Science in Computer Science (B.Sc.) *2016-2021*
Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
CGPA: 3.35/4

Thesis: Identify misinformation about Covid-19 on social media.
Selected Courses: Artificial Intelligence (A^+); Deep Learning (A^+); Data Mining: (A^+); Database (A); Principles of Software Design (A); Graph Theory (A); Design & Analysis of Algorithms (A)

RESEARCH INTERESTS

- **Deep Learning / Machine Learning**
- **Data Science**
- **Software Engineering**
- **Computer Vision**
- **Natural Language Processing**
- **Artificial Intelligence**

PUBLICATION

Dadgar, S., & Prof. Ghatee, M. (2021). Checkovid: A COVID-19 Misinformation Detection System on Twitter Using Network and Content Mining Perspective.
doi.org/10.48550/arXiv.2107.09768

Dadgar, S., & Dr. Neshat, M. (2022). Comparative Hybrid Deep Convolutional Learning Framework with Transfer Learning for Diagnosis of Lung Cancer. (Accepted at 14th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2022) - Published by Springer)
doi.org/10.1007/978-3-031-27524-1_28

Dadgar, S., & Dr. Neshat, M. (2022). A Novel Hybrid Multi-Modal Deep Learning for Detecting Hashtag Incongruity on Social Media. (Published by Sensors Journal).
doi.org/10.3390/s22249870

Dadgar, S., & Dr. Neshat, M. (2025). Technical report of the machine learning methods application for wave energy prediction. (Submitted to SDEWES conference)

Dadgar, S., & Prof. Fong, P. (2025). Mining Attributed DTE Policies. (Submitted to ESORICS conference)

TEACHING EXPERIENCE

TA, Explorations in Artificial Intelligence and Machine Learning Spring 2025
Instructor: Prof. Janet Leahy

TA, Introduction to Software Engineering Fall 2024, Winter 2025
Instructor: Prof. Steve Sutcliffe

TA, Techniques for Numerical Computation Winter 2024
Instructor: Dr. Md Mainul Hasan Polash

TA, Web-Based Systems Fall 2023, Winter 2024
Instructor: Prof. Steve Sutcliffe

TA, Artificial Intelligence Winter 2020
Instructor: Prof. Mehdi Ghatee

WORK EXPERIENCE

Vice President of Finance 2024-2025
Computer Science Graduate Society

Remote Research Assistant - Deep Learning Researcher - UniSA 2021-2022
Supervisor: Dr. Mehdi Neshat

- A remote and part-time RA position to conduct comprehensive research in Deep Learning, Natural Language Processing, Computer Vision, and Explainable Artificial Intelligence.
- Took Coursera courses to learn more about Deep Learning, NLP, and CV applications.
- Published two papers as the first author.

Software Engineering Internships Summer 2019
Rahnema Company

- Three months learning and developing a mobile application using Spring, React Native, and other technologies.

Head of Informatics and Contests of Students' Scientific Association 2018-2019
Amirkabir University of Technology

- Elected by students from the Department of Mathematics and Computer Sciences for this voluntary position.
- Tasked with organizing contests within our department, including ACM competitions, and arranging supplementary classes for students.
- Collaborated with industry professionals to host events in the department, fostering a bridge between academic learning and practical industry applications.

PROJECTS

Engagehub: AI-Powered Public Engagement & Analytics Platform Winter 2025
Urban Systems Case Competition

- Developed an AI-driven platform that transforms traditional surveys into voice-activated, accessible experiences, enhancing public engagement and feedback collection.
- Integrated voice recognition and AI chatbot assistance using a Large Language Model, enabling real-time question answering related to surveys and feedback by learning from the collected data.

· Utilized technologies like NLP, speech-to-text, and web scraping for efficient data processing, visualization, and actionable insights.

Hackathon - Foreign Affairs Data Visualization Fall 2023
CANIS Data Visualization & Foreign Interference Challenge

· Given a dataset and a task to visualize the dataset, and our goal, as a participant, was to decode the dataset, uncover patterns, and ultimately transform raw data into meaningful insights for a broader audience that might not be immediately apparent.

Cando - Mobile Application for Auction Fall 2023

· Developed an auction mobile app using Spring for backend services and React Native for cross-platform user interface, featuring live auction bidding, user account management, and real-time notifications for an engaging user experience.

MFCC Speech Recognition Winter 2019

· 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.

Hopfield Network Winter 2019

· Implemented Hopfield Networks from scratch, that can be used to reconstruct incomplete images by iteratively updating their state towards stored patterns, effectively filling in missing information. (Deep Learning course project)

Call of Typing – Website for Typing Competition Winter 2019

· Developed a website for a typing competition in the "Principle of Software Design" Course course project. Users can enhance their typing skills through written text typing exercises or improve their listening abilities by transcribing conversations or music. The platform contains several functionalities and supports profile customization, group collaborations for typing contests, and a dynamic ranking system to foster a competitive environment..

Data Analyzing of Digikala's Dataset Winter 2018
Amirkabir Data Mining Cup 2018

· Conducted a comprehensive data analysis project for Digikala company, focusing on extracting insightful information to assist the company in refining strategies for increased popularity and market presence. This involved the application of advanced analytics techniques to identify key trends and opportunities for strategic adjustments.

Desktop Education Portal Fall 2017
Amirkabir Data Mining Cup 2018

· Developed a desktop application for students, enabling them to enroll in courses and access various functionalities akin to university portals, streamlining their academic activities and administrative tasks.

HONORS AND AWARDS

International Graduate Student Recruitment Award
University of Calgary

International Graduate Tuition Award
University of Calgary

Offered to change my major from Mathematics to Computer Science as an outstanding talent student in B.Sc.
Amirkabir University of Technology

Ranked within the top 0.1% of the candidates in the "Iranian University Entrance Exam" for B.Sc.
Tehran, Iran

CERTIFICATE

Machine Learning - Stanford University 2019
Coursera

Machine Learning A-Z™: Hands-On Python in Data Science 2020
Udemy

Deep Learning A-Z™: Hands-On Artificial Neural Networks 2020
Udemy

Java J2EE Developer 2018
Sharif University of Technology (LAITEC)

Java JavaSE Developer 2017
Sharif University of Technology (LAITEC)

SKILLS

Programming Languages	Python, Java, C/C++, Matlab
Libraries	PyTorch, TensorFlow, Keras, Numpy, Pandas, Scikit-Learn, NLTK, OpenCV, Matplotlib
Web Technologies	Django, Spring, Node.js, HTML, CSS, JavaScript, jQuery, React
Databases	MySQL, MongoDB, PostgreSQL, Oracle
Tools	Git, Jupyter Notebook, Docker
Operating Systems	Windows, Linux, MacOS
Languages	English, Persian
Other	LaTeX, Microsoft Office, Photoshop, Tableau

REFERENCES

Available Upon Request