Fardad Dadboud
AI/ML Researcher and Engineer

✉ fardad.dadboud@uottawa.ca 📞 6476330522 📍 Ottawa, Canada 🔗 https://fardaddadboud.github.io/

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🎓 EDUCATION

Ph.D. of Electrical Engineering and Computer Science (EECS),   Jan 2021 – present
University of Ottawa ⌧   Ottawa, Canada
Supervisor: Professor M. Bolic ⌧

M.Sc. of Biomedical Engineering-Bioelectric, *Sharif University of Technology*   Sep 2015 – Jan 2018
Supervisor: Dr. M. Jahed   Tehran, Iran

B.Sc. of Electrical Engineering, *Babol Noshirvani University of Technology*   Sep 2010 – Sep 2015
Supervisor: Dr. A. Aghagolzadeh   Babol, Iran

💼 PROFESSIONAL EXPERIENCE

Senior Machine Learning Engineer (Intern), *Neptune Technologies* ⌧   Feb 2025 – present
     Florida, USA

Freelance AI Developer, *UpWork* ⌧   Apr 2024 – Feb 2025
  AI model development for different applications and real-world problems.   Remote

Graduate Research Assistant, *University of Ottawa*   Jan 2021 – present
  Deep Learning and Computer Vision-related problems: Domain shift and   Ottawa, Canada
adaptation, meta-learning. Application: Autonomous Vehicles

Researcher, *National Research Council (NRC)* ⌧   May 2021 – present
  Object detection and tracking in videos for both real and simulated data   Ottawa, Canada

📖 PUBLICATIONS

DrIFT: Autonomous Drone Dataset with Integrated Real and Synthetic Data,   2024
Flexible Views, and Transformed Domains,
Winter Conference on Applications of Computer Vision (WACV) 2025
  Dadboud, Azad, Mehta, Bolic, Mantegh

Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial   2023
Depth Completion,
The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)
  Hatami, Dadboud, Bolic, Mantegh, Najjaran

Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data   2021
Augmentation and PANet, *17th IEEE International Conference on Advanced Video and*
Signal Based Surveillance (AVSS)
  Dadboud, Patel, Mehta, Bolic, Mantegh

A machine learning model for predicting favorable outcome in severe   2021
traumatic brain injury patients after 6 months, *Acute and critical care*
  Nourelahi, Dadboud, Khalili, Niakan, Parsaei

🏅 AWARDS

The second place of Drone-vs-Bird Detection Challenge,   2021
4th WOSDETC of IEEE AVSS 2021

Research Scholarship, *University of Ottawa*   2021

Ranked 44th in National Entrance Exam for Master of Science   2015

🧠 SKILLS

Software
Pycharm, VSCode, VIM, Nano, Git, tmux

MLops
neptune, DVC, DagsHub, mlflow, wandb

OS
Windows, Linux-Based, macOS, ROS

Programming
Python, MATLAB, C/C++, JAVA

Simulation
AirSim, Gazebo, MATLAB

Type Setting
LATEX, Microsoft Office

DL & CV Frameworks
Pytorch, TensorFlow, OpenCV, YOLOV5/V7, MMdetection, Detectron2, CVAT, SAM, CLIP, BLIP, Flamingo

Cluster Batch Systems
SLURM, Digital Research Alliance, CMC, AWS, Azure, GCP