Fardad Dadboud

AI/ML Researcher and Engineer

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🔗 https://fardaddadboud.github.io 🐙 FardadDadboud 🎓 Fardad Dadboud

EDUCATION

Ph.D. of Electrical Engineering and Computer Science (EECS), *University of Ottawa* 🔗
Supervisor: Professor M. Bolic 🔗

01/2021 – present
Ottawa, Canada

M.Sc. of Biomedical Engineering-Bioelectric, *Sharif University of Technology*
Supervisor: Dr. M. Jahed

09/2015 – 01/2018
Tehran, Iran

B.Sc. of Electrical Engineering, *Babol Noshirvani University of Technology*
Supervisor: Dr. A. Aghagolzadeh

09/2010 – 09/2015
Babol, Iran

PROFESSIONAL EXPERIENCE

Senior Machine Learning Engineer (Internship), *Neptune Technologies* 🔗
- Developed AI-powered algorithmic trading strategies for trade signal generation
- Deployed real-time trading services as scalable online APIs
- Built multi-agent systems integrating LLMs and VLMs

02/2025 – 06/2025
Remote

Freelance AI Developer, *UpWork* 🔗
AI model development for different applications and real-world problems.

04/2024 – 02/2025
Remote

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

01/2021 – present
Ottawa, Canada

Researcher, *National Research Council (NRC)* 🔗
Object detection and tracking in videos for both real and simulated data

05/2021 – present
Ottawa, Canada

Publications

TRUST:TRAJECTORY-GUIDED STATE-SPACE TEMPORAL TEST-TIME ADAPTATION,
ICLR 2026 Workshop CAO
Dadboud, Azad, Bolic, Mantegh

2026

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

2024

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

2021

Skills

📛 Software & IDEs
Pycharm, VSCode, Cursor, VIM, Nano, Git, tmux

🧠 DL/AI/CV Frameworks
PyTorch, TensorFlow, OpenCV, Ultralytics YOLOs,
MMDetection, Detectron2, CVAT, SAM, CLIP, BLIP,
Flamingo, LLAMA, Sonnet, AWS Bedrock, Together AI

🧪 Simulation & Robotics
ISAAC SIM, AirSim, Gazebo, MATLAB

🖥️ Operating Systems & Shell
Linux (Ubuntu), Windows, macOS, ROS, Bash

👨‍💻 Programming Languages
Python, MATLAB, C/C++, Java

📡 MLOps & API Integration
Neptune, DVC, DagsHub, MLflow, Weights & Biases,
FastAPI, Nango, DocuRIO, REST APIs

🔗 Deployment & Servers
NGINX, Docker, SLURM, RunPod, Digital Research
Alliance (Narval/Beluga), AWS, Azure, GCP

📝 Documentation & Writing
LaTeX/Overleaf, Microsoft Office

Awards

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

Research Scholarship, *University of Ottawa*   2021

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