

# Fardad Dadboud

## AI/ML Researcher and Engineer

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

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### 🎓 EDUCATION

<b>Ph.D. of Electrical Engineering and Computer Science (EECS),</b> <i>University of Ottawa</i> ✉ Supervisor: Professor M. Bolic ✉	Jan 2021 – present Ottawa, Canada
<b>M.Sc. of Biomedical Engineering-Bioelectric, Sharif University of Technology</b> Supervisor: Dr. M. Jahed	Sep 2015 – Jan 2018 Tehran, Iran
<b>B.Sc. of Electrical Engineering, Babol Noshirvani University of Technology</b> Supervisor: Dr. A. Aghagolzadeh	Sep 2010 – Sep 2015 Babol, Iran

### 📁 PROFESSIONAL EXPERIENCE

<b>Senior Machine Learning Engineer (Internship), Neptune Technologies</b> ✉ <ul style="list-style-type: none"><li>- Developed AI-powered algorithmic trading strategies for trade signal generation</li><li>- Deployed real-time trading services as scalable online APIs</li><li>- Built multi-agent systems integrating LLMs and VLMs</li></ul>	Feb 2025 – Jun 2025 Remote
<b>Freelance AI Developer, UpWork</b> ✉ <b>AI model development</b> for different applications and real-world problems.	Apr 2024 – Feb 2025 Remote
<b>Graduate Research Assistant, University of Ottawa</b> <b>Deep Learning and Computer Vision-related</b> problems: Domain shift and adaptation, meta-learning. Application: Autonomous Vehicles	Jan 2021 – present Ottawa, Canada
<b>Researcher, National Research Council (NRC)</b> ✉ <b>Object detection and tracking in videos</b> for both real and simulated data	May 2021 – present Ottawa, Canada

### 📄 PUBLICATIONS

<b>DrIFT: Autonomous Drone Dataset with Integrated Real and Synthetic Data, Flexible Views, and Transformed Domains,</b> <i>Winter Conference on Applications of Computer Vision (WACV) 2025</i> Dadboud, Azad, Mehta, Bolic, Mantegh	2024
<b>Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial Depth Completion,</b> <i>The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)</i> Hatami, Dadboud, Bolic, Mantegh, Najjara	2023
<b>Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data Augmentation and PANet,</b> <i>17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)</i> Dadboud, Patel, Mehta, Bolic, Mantegh	2021
<b>A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months,</b> <i>Acute and critical care</i> Nourelahi, Dadboud, Khalili, Niakan, Parsaei	2021

### 🏆 AWARDS

<b>The second place of Drone-vs-Bird Detection Challenge,</b> <i>4th WOSDETC of IEEE AVSS 2021</i>	2021
<b>Research Scholarship, University of Ottawa</b>	2021
<b>Ranked 44th in National Entrance Exam for Master of Science</b>	2015

## SKILLS

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### Software & IDEs

Pycharm, VSCode, Cursor, VIM, Nano, Git, tmux



### ML Ops & API Integration

Neptune, DVC, DagsHub, MLflow, Weights & Biases, FastAPI, Nango, DocuRIO, REST APIs



### Operating Systems & Shell

Linux (Ubuntu), Windows, macOS, ROS, Bash



### Programming Languages

Python, MATLAB, C/C++, Java



### Simulation & Robotics

AirSim, Gazebo, MATLAB



### Documentation & Writing

LaTeX/Overleaf, Microsoft Office



### DL/AI/CV Frameworks

PyTorch, TensorFlow, OpenCV, YOLOv5/v7/v8, MMDetection, Detectron2, CVAT, SAM, CLIP, BLIP, Flamingo, LLAMA, Sonnet, AWS Bedrock, Together AI



### Deployment & Servers

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