

Fardad Dadboud

AI Researcher and Developer | Ph.D. Candidate

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🎓 EDUCATION

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

📁 PROFESSIONAL EXPERIENCE

Senior Machine Learning Engineer (Intern), Neptune Technologies ✍	Feb 2025 – present Florida, USA
Freelance AI Developer, UpWork ✍ AI model development for different applications and real-world problems.	Apr 2024 – Feb 2025 Remote
Graduate Research Assistant, University of Ottawa Deep Learning and Computer Vision-related problems: Domain shift and adaptation, meta-learning. Application: Autonomous Vehicles	Jan 2021 – present Ottawa, Canada
Researcher, National Research Council (NRC) ✍ Object detection and tracking in videos for both real and simulated data	May 2021 – present Ottawa, Canada

📄 PUBLICATIONS

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

🏆 AWARDS

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