

# Arash Daneshvar

## Junior Data Scientist and Robotacist

As a Data Science and Engineering student with a robust background in Robotics, I am excited to apply my skills at the intersection of robotics and data science. I am actively seeking internship opportunities and a thesis project aligned with my research interests.

✉ [ao.daneshvar@gmail.com](mailto:ao.daneshvar@gmail.com)

📍 **Torino, Italy**

in [LinkedIn](#)

☎ **+39 379 232 4690**

🐙 [GitHub](#)

🌐 [Website](#)

## Work Experience

**Software Developer** | *May 2020 - Apr 2022*

Ministry of Science, Research and Technology - Iran, Tehran

- **Front-End Developer:** Designed a user-friendly registration website for university applications, enhancing the application process.
- **Data Analyst:** Developed and implemented Business Intelligence (BI) dashboards using Power BI to effectively report key insights and trends.
- **ML Engineer:** Implemented ML algorithms to automate the sorting of applicants' resumes, improving the efficiency of the university application evaluation process.

## Projects

**Computer Vision** - "Image Geo-localization Through Retrieval"

- Trained a model on a subset of the cities dataset to accurately identify the geographic location of photographs.
- Demonstrated strong performance across multiple datasets, showcasing high accuracy in location prediction.

**Tools:** PyTorch, Python

**ML for IoT** - "Smart Battery Monitoring with Voice Processing"

- Developed a system for remote monitoring of device battery status, enabling users to control monitoring through voice commands.
- Implemented battery status trend visualization using a web application.

**Tools:** TensorFlow Lite, Redis, Python

**Reinforcement Learning** - "Domain Randomization in Reinforcement Learning: Sim-to-Real Transfer for Robotic Control Policies"

- Developed robotic control policies using advanced reinforcement learning techniques.
- Focused on sim-to-real transfer, addressing the challenges of applying simulation-trained policies to real-world robotics.

**Tools:** OpenAI Gym, PyTorch, Python

## Technical Skills

**Programming Languages:** Python, Java, C++

**Operating Systems:** Linux, ROS

**Database/Server:** MySQL, Redis, MongoDB

**Tools & Technologies:** TensorFlow, PyTorch, OpenAI Gym, Spark, Tableau

**Other Skills:** Git, RESTful API, Linux CLI

## General Skills

Problem-solving & Creativity

Analytical thinking

Teamwork & Fast learning

Communication skills

## Education

- **MSc | Data Science and Engineering**

Politecnico di Torino

*Sep 2022 - Present*

Deep learning | Big data | ML for IoT | Reinforcement Learning

- **MSc | Robotics Engineering**

Tehran Polytechnic

*Sep 2015 - Nov 2018* Non-linear Control, Adaptive Control | Optimization

- **BSc | Robotics Engineering**

Shahrood University

*Sep 2011 - Jul 2015*

Robotics | Dynamics | Electric circuit | Electronics

## Research Interests

- Reinforcement Learning
- Deep Learning
- Computer Vision
- Robotics
- IoT

## Languages

- Persian (Native)
- English (C1)
- Italian (A1)