







# ALI DANESHPOUR

♥ Department of Mathematics and Computer Science ,AmirKabir University of Technology (Tehran Polytechnic), Tehran, Iran 📞 +98 933 955 67 43

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 [alidaneshpour.github.io](#)  [Alidaneshpour](#)

## EDUCATION

### Amirkabir University of Technology

*Ph.D. in Computer Science (Artificial Intelligence)*

Tehran, Iran

Sep 2024 – Present

- Supervisor: Prof. Mehdi Ghathe
- GPA: 19.75/20 (4.0/4.0)

### Amirkabir University of Technology

*M.S. in Computer Science (Artificial Intelligence)*

Tehran, Iran

Sep 2021 – Feb 2024

- Supervisor: Dr. Ali Mohades

### Sharif University of Technology

*B.S. in Petroleum Engineering*

Tehran, Iran

Sep 2016 – Jul 2021

## WORK EXPERIENCE

### Koushesh High School

*Geometry Teacher, Pre-University Mathematics Class*

Tehran, Iran

Sep 2018 – Apr 2019

## RESEARCH INTEREST

- Machine Learning
- Deep Learning
- Computer Vision
- Domain Generalization
- Trustworthy AI

### Relevant Coursework

- Machine Vision, Grade: 20/20, Fall 2024
- Human-Computer Interaction, Grade: 20/20, Fall 2024
- Machine Learning, Grade: 19/20, Fall 2021
- Data Analytics, Grade: 19/20, Winter 2025
- Data Mining, Grade: 18.2/20, Fall 2022
- Statistics and Probability, Grade: 19/20, Fall 2019

## RESEARCH EXPERIENCE

### Research Assistant

*Network Optimization Research Center(NORC)*

Supervisor: Prof. Mehdi Ghathe

AmirKabir University of Technology

Sep 2024 - Present

## TEACHING EXPERIENCE

### AmirKabir University of Technology

*Teaching Assistant*

- Advanced Artificial Intelligence
- Machine Vision

Prof. Mehdi Ghathe — Fall 2025

Dr. Zahra Shariatmadar — Fall 2025


## PUBLICATIONS

- ▶ Daneshpour, A., B.Yousefimehr, Ghathe, M. Balanced Learning with Optimized Extra Trees Classifier for Reliable Lithology Identification in Imbalanced Well Log Data. In *International Conference on Computer and Knowledge Engineering (ICCKE)*, 2025 [\[pdf\]](#)


## PROJECTS

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**Multi-Model Object Detection and Tracking Tool with Real-Time GUI** Sep 2024 - Feb 2025

- Developed a modular real-time video analysis platform integrating YOLOv5, YOLOv8, and Mask R-CNN with dynamic confidence control and an interactive GUI for visualization.
-  GitHub

**Online Voting System** Sep 2024 - Feb 2025

- Developed a secure web-based voting application using HTML, CSS, and JavaScript with user authentication, candidate management, and an interactive selection workflow.
-  GitHub

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C++, PHP, SQL (Postgres)

**ML Frameworks:** PyTorch, TensorFlow, Scikit-learn, Keras

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, OpenCV, librosa, Hugging Face

**Developer Tools:** Git, Github, VS Code, Google Colab, Kaggle, Visual Studio, PyCharm, IntelliJ, L<sup>A</sup>T<sub>E</sub>X

**Web Development:** Django, Laravel, React, HTML/CSS, JavaScript

## HONORS AND AWARDS

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**Accepted in NODET High School Entrance Exam** Sep 2012

- NODET (National Organization for Development of Exceptional Talents) student selection exam is held every year nationwide for students starting high school. The organization is responsible for a number of schools across the country, which train students on a more advanced level in each field of study.

**Accepted in the First Level of the Iranian National Mathematical Olympiad** 2013 – 2015

- Achieved acceptance in the first level of the nationwide Iranian National Mathematical Olympiad for three consecutive years. The Olympiad is a highly competitive examination process that identifies and nurtures top talents in mathematics across the country.