Mahyar Gohari

Machine Learning Researcher

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📍 Brescia, Italy

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Summary

Research Fellow at the University of Brescia, recently awarded a PhD in Information Engineering, with a focus on multimedia forensics. Possessing 2 years of industry experience, adept at bridging academic expertise with practical applications.

Education

University of Brescia / Doctor of Philosophy (Ph.D.)

November 2021 - June 2025, Brescia, Italy

Ph.D. Candidate in Information Engineering.
My research focuses on multimedia forensics, particularly in the areas of image and audio forgery detection using computer vision methods. I've had the opportunity to take part in projects in these domains, contributing to advancements in multimedia forensics while deepening my understanding of the field.

Amirkabir University of Technology / Master of Science (M.S.)

September 2018 - April 2021, Tehran, Iran

Master of Science (M.S.) in Artificial Intelligence and Soft Computing.
During my master's studies, I explored tomato detection and classification by their ripeness, employing object detection methods, in greenhouse settings. This research, alongside my coursework, broadened my expertise in computer vision and machine learning programming.

Amirkabir University of Technology / Bachelor of Science (B.S.)

September 2013 - November 2017, Tehran, Iran

Bachelor of Science (B.S.) in Computer Science.

Skills

Programming Languages: Python, C/C++, Bash Scripting, LATEX

Tools and Technologies: PyTorch, TensorFlow, OpenCV, Keras, Scikit-learn, Linux, Git, Docker, etc.

Languages: Persian (Native) - English (Advanced proficiency) - Italian (Intermediate)

Experience

University of Brescia / Research fellow

Mar 2025 - Now, Brescia, Italy

- Conduct research on JPEG-AI latent representations to develop methods for image forgery detection and related computer vision applications.
- Serve as Teaching Assistant for Signal Processing and Generative AI courses, supporting lectures, lab sessions, and student evaluations.
- Prepare research findings for presentations and potential publication in academic venues.

Arsam Robotics / Computer Vision Engineer

May 2021 - December 2021, Tehran, Iran

- Responsible for developing a computer vision model using Python and Tensorflow for the "Phygital" game for kids. In this game a mobile phone mounts on the board game, a digital game runs, and the kid interacts/plays with the game by putting the right physical toy on the board.
- Tested, validated, and reformulated models to deliver accurate prediction of outcomes of interest.
- Read scientific articles, conference papers, or other sources of research to identify emerging object detection trends and technologies.

Arka / Computer Vision Engineer

June 2020 - May 2021, Tehran, Iran

- Responsible for developing an object detection model for aerial images taken by drones.
- Delivered oral and written presentations of results of research to management and other end users.
- Read scientific articles, conference papers, or other sources of research to identify emerging object detection trends and technologies.

Selected Publications

- **Gohari, M.**, Salvi, D., Bestagini, P., Adami, N. (2025). Audio Features Investigation for Singing Voice Deepfake Detection, ICASSP 2025.
- **Gohari, M.**, Bestagini, P., Benini, S., Adami, N. (2024). Spectrogram-Based Detection of Auto-Tuned Vocals in Music Recordings, WIFS 2024.
- Zanardelli, M., **Gohari, M.**, Benini, S., Adami, N. (2024). PGNN-based Approach for Robust 3D Light Direction Estimation in Outdoor Images, CBMI 2024.
- Zanardelli, M., **Gohari, M.**, Leonardi, R., Benini, S. and Adami, N., 2024. SynthOutdoor: A synthetic dataset for 3D outdoor light estimation. Data in Brief.

References

- **References are available upon request.**