Mehrad Yaghoubi

Computer vision and uncertainty-aware learning

Karaj, Iran

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Portfolio · Google Scholar · GitHub · ORCID · LinkedIn

Research profile

M.Sc. student in AI (GPA 18.45/20), preparing for thesis defense. Research on uncertainty-guided learning in visual speech recognition and decision making in Go. Seeking a fully funded PhD in computer vision or efficient deep learning.

Selected research

Entropy-Gated Online Self-Distillation for Visual Speech Recognition Based on Connectionist Temporal Classification

Mehrad Yaghoubi, Azam Bastanfard · 2026

EGOSD uses an auxiliary belief module to estimate frame-level uncertainty and control online self-distillation in a lightweight VSR model, with negligible additional inference cost.

Preprint · Under review at The Visual Computer

DOI 10.2139/ssrn.6831426 · GitHub

Belief-Guided Decision Making with Uncertainty Gating in the Game of Go

Mehrad Yaghoubi, Azam Bastanfard, Abbas Jalilvand, Ashkan Rezaei · 2026

This work explores belief models that account for uncertainty to guide decisions in Go with less reliance on search.

arXiv preprint

arXiv 2607.26946

Education

M.Sc. in Artificial Intelligence

Islamic Azad University, Karaj

2024 to 2026 (expected), preparing for thesis defense

GPA: 18.45/20

Thesis: improving lip-reading accuracy with deep neural networks.

B.Sc. in Computer Science (Software Engineering)

Islamic Azad University, Karaj

2017 to 2023

GPA: 14.68/20

Research software and open source

PyLipExtractor

Open-source package for extracting lip regions from video, with temporal smoothing and optional illumination normalization.

GitHub · PyPI

Research & Engineering Router

Created an open-source agent skill for selecting relevant code and research evidence, with optional model-assisted routing and offline checks.

GitHub

XERJ Corpus Hub

Open-source contributor.

Contributor profile

Technical skills

Python · PyTorch (CUDA) · TorchVision · OpenCV · MediaPipe

NumPy · Pandas · scikit-learn · Git · Linux · LaTeX

Docker · SQL · MySQL · PostgreSQL

Research and teaching

University research

Research Center, Islamic Azad University, Karaj · 1.5 years

Software Instructor

Faculty of Work and Skills, Islamic Azad University, Karaj · 1 year

Programming Instructor

Net College Institute · 1 year

Robotics Instructor

Mohandesin Bartar Institute · 1 year

Professional experience

AI Specialist

Ghasedak Peik Shahr · 2026 · 2 months

Co-founder

Fidar Technology Fartak · 1.5 years

University startup project developing games informed by psychology for crime prevention. The venture was not formally incorporated.

Languages

Persian (native) · English (B1)