

Hamed Karimi

- 10+ years of experience in machine learning, data science, and software engineering.
- 7+ years of experience designing and implementing deep learning models.
- 7+ years of experience developing machine learning pipelines for training and evaluating on large-scale datasets.
- 10+ peer-reviewed publications in high-impact ML conferences and neuroscience journals.

Professional Experiences

Social & Computational Cognitive Neuroscience Lab

Boston College, MA

PhD Candidate

2021-2026

- Benchmarked video foundation models against cortical visual processing.
- Developed and optimized multi-GPU pipelines for training deep neural networks on a high-performance cluster.
- Published 3 peer-reviewed papers (70+ citations), including a *Journal of Neuroscience* cover feature and *NeurIPS* workshops ([Google Scholar](#)).
- Mentored and taught undergraduate student.

Cengage Group

Boston, MA

Data Science Intern

2022

- Implemented an AWS pipeline to store, transcribe, and analyze 25M+ customer service calls.
- Built NLP models on call data to generate actionable insights that lead to a sales guide and playbook, driving a 15% sales increase in the pilot group.

Cognetivity Neurosciences Ltd.

London, UK

Machine Learning Research Intern

2020–2021

- Developed machine learning models on visual cognitive task data to detect mild cognitive impairment (MCI) and early Alzheimer's disease (AD), achieving classification performance on par with expert clinical assessments.
- Established and benchmarked the first dataset of visual cognitive task responses for MCI and AD patients, enabling reproducible evaluation of ML approaches.

Pinket

Tehran, Iran

Data Scientist

2020

- Built an ML model to predict store item availability, minimizing customer orders to less than 1% for out-of-stock products in stores lacking inventory databases.

System Group

Tehran, Iran

Full Stack Software Engineer

2019-2020

- Built and maintained Enterprise Resource Planning (ERP) software with .NET.

Royan Institute

Tehran, Iran

Research Assistant

2017-2021

- Analyzed large-scale EEG/fMRI data to study the temporal dynamics of neural activity in patients with mild cognitive impairment.
- Published 11 peer-reviewed papers, including widely reported findings on delayed information processing speed in dementia.

Youtab Games

Tehran, Iran

Founding Game Developer

2016-2017

- Designed, developed, and published two cross-platform arcade games on Android and iOS.

Skills

ML/DL/RL packages

- Pytorch, scikit-learn, Webdatasets, OpenAI Gymnasium

DL architectures and algorithms

- CNN, RNN, LSTM, Transformer, LLM, GAN, Diffusion, GNN, RAG

Programming tools and languages

- Python, C++, C#, React Native, JavaScript
- SQL
- Git, Docker, Kubernetes

Cloud Computing

- AWS

Honors and Awards

- Boston College Donald White Teaching Excellence Award, 2024
- Best paper award at Iranian Symposium on Brain Mapping Updates, 2019
- 7th place in Asia regional contest, ACM-ICPC, West Asia Site, Tehran, Iran, 2014
- 2nd place in National RoboCup Contest, 2D Soccer Simulation, Tehran, Iran, 2010

Education

Ph.D., Brain and Cognitive Sciences (GPA 3.96)

Boston College, Boston, MA

M.Sc., Computer Science

Amirkabir University of Technology, Tehran, Iran

B.Sc., Computer Science University of Tehran, Tehran, Iran

Contact Info

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