

# Amir Mohammad Ghoreyshi

AI · COMPUTER VISION RESEARCHER · DEVELOPER

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## Education

Shahid Rajaei University , B.S. in Computer Engineering	CGPA : 3.44 / 4	2014 - 2018	Tehran, Iran
Shahid Beheshti University , M.S. in Computer Engineering	CGPA :	2022 - present	Tehran, Iran

## Skills

Computer Vision	Classification   Object Detection   OCR   Face Recognition   GAN   Classic Image Processing
Frameworks	Tensorflow   Keras   Pytorch   Onnxruntime   TensorRT   Deepstream
Packages	Opencv   Scikit Learn   Numpy   Matplotlib   Pandas
Deep Learning	CNN   RNN   CNN Backbones   Model Optimization   Transformers
Programming	Python   C++   Java   Java Script   Android Programming   HTML/CSS   OOP
Computer Tools	Linux   Microsoft Windows   Docker   Git   GPU setup   IDEs VSC,Pycharm,JN

## Work Experience

Part AI Research Center	Tehran, Iran
COMPUTER VISION RESEARCHER AND DEVELOPER	May 2018 - Present
Shenasa AI	Tehran, Iran
COMPUTER VISION DEVELOPER	September 2017- August 2018
Roshan	Tehran, Iran
COMPUTER VISION DEVELOPER	January 2017- September 2017

## Projects

Project 1: Farashenasa	Part AI Research Center
📄 FARASHENASA	Nov. 2020 – Dec. 2022
<ul style="list-style-type: none"><li>Developed Iran's largest <b>online identity verification platform</b> with over <b>10 million authenticated users</b>.</li><li>Built and deployed AI-based systems for <b>face, signature, and fingerprint recognition</b>.</li><li>Implemented <b>liveness detection</b> using texture analysis and face anti-spoofing techniques.</li><li>Added <b>user awareness detection</b> through hand gesture and head pose recognition.</li><li>Optimized deep learning models for real-time performance on low-power devices.</li></ul>	
Project 2: Icup	Part AI Research Center
📄 ICUP	Nov. 2019 – Dec. 2020
<ul style="list-style-type: none"><li>Designed and integrated CV-based modules into a financial super-app with over <b>500,000 active users</b>.</li><li>Developed AI-driven <b>user authentication</b> and automated processing of national and banking cards.</li><li>Optimized image-processing pipelines to run efficiently on client-side mobile devices.</li></ul>	
Project 3: Smart Surveillance System for Vehicle and Person Monitoring	Part AI Research Center
📄 SEPEHR	Nov. 2018 – Present
<ul style="list-style-type: none"><li>Developed an AI-based surveillance system for <b>vehicle and pedestrian monitoring</b> using live video feeds.</li><li>Implemented real-time <b>object detection</b> to track vehicles and people across different scenes.</li><li>Built classification models to recognize <b>115 car types</b> and deployed OCR modules to extract <b>license plate text</b>.</li><li>Engineered lightweight facial detection models optimized for speed and deployment on low-power edge devices.</li><li>Trained models for <b>facial attribute extraction</b>, including <b>age and gender prediction</b>.</li><li>Enabled identity-based tracking by combining vehicle and facial recognition pipelines into a unified monitoring platform.</li><li>Designed and deployed the entire video analytics pipeline using <b>NVIDIA DeepStream</b>, with custom plugins for efficient multi-stream processing.</li></ul>	
Project 5: Early Diagnosis of Alzheimer's Using AI	Shahid Rajaei University
📄 ICA	Nov. 2019 – Dec. 2020
<ul style="list-style-type: none"><li>Built the <b>Integrated Cognitive Assessment (ICA)</b>, a 5-minute AI-driven test for early Alzheimer's screening.</li><li>Designed to be <b>language-, culture-, and education-independent</b> for global use.</li><li>Used AI to analyze high-dimensional cognitive and demographic data for accurate diagnosis.</li><li>Published in a peer-reviewed journal; demonstrated high potential for early AD detection.</li></ul>	

## Publications

GOOGLE SCHOLAR

2020

- A. M. Ghoreyshi, A. AkhavanPour and A. Bossaghzadeh, "Simultaneous Vehicle Detection and Classification Model based on Deep YOLO Networks," 2020 International Conference on Machine Vision and Image Processing (MVIP), 2020, pp. 1-6, doi: 10.1109/MVIP49855.2020.9116922.

GOOGLE SCHOLAR

2022

- S. Khanehgir, A. Mohammad Ghoreyshi, A. Akbari, R. Derakhshan and M. Sabokrou, "Light Face: A Light Face Detector for Edge Devices," 2022 International Conference on Machine Vision and Image Processing (MVIP), 2022, pp. 1-6, doi: 10.1109/MVIP53647.2022.9738740.

GOOGLE SCHOLAR

2020

- Modarres MH, Khazaie VR, Ghorbani M, Ghoreyshi AM, AkhavanPour A, Ebrahimpour R, Vahabi Z, Kalafatis C, Razavi SM. Early diagnosis of Alzheimer's dementia with the artificial intelligence based Integrated Cognitive Assessment: Neuropsychology computerized neuropsychological assessment. Alzheimer's Dementia. 2020 Dec.

## Research Interests

<b>Machine Learning</b>	Analyzing data and designing predictive models
<b>Deep Learning</b>	Building cutting edge AI services and applying scientific methods to generate real-world products
<b>Computer Vision</b>	Solving problems based on the concepts of machine vision and neural networks
<b>Model Optimization</b>	Design and optimization of deep networks for light devices

## Awards

2019 **Third rank**, Distorted license plate recognition challenge which was hold by the municipality of Tehran *Tehran, Iran*

## Teaching

Winter 2020	<b>Part AI college</b> , Image Classification, CNN, Object Detection	<i>Tehran, Iran</i>
Summer 2021	<b>Part AI college</b> , Object Detection using RCNNs, SSD, YOLO algorithms	<i>Tehran, Iran</i>
Winter 2021	<b>Part AI college</b> , Face Detection and Recognition algorithms	<i>Tehran, Iran</i>

## Languages

<b>English</b>	Advanced
<b>Persian</b>	Native
<b>German</b>	Begginer

## Referees

<b>Dr. Reza Ebrahimpour</b>	<i>Tehran, Iran</i>
PROF. OF COGNITIVE NEUROSCIENCE, SHAHID RAJAEI UNIVERSITY (SRU) AND SCHOOL OF COGNITIVE SCIENCES, IPM	<i>Personal Page</i>
<b>Dr. Alireza Bosaghzadeh</b>	<i>Tehran, Iran</i>
ASSISTANT PROFESSOR, SHAHID RAJAEI UNIVERSITY (SRU)	<i>Personal Page</i>
<b>Mr. Alireza AkhavanPour</b>	<i>Tehran, Iran</i>
LECTURER AT CLASS.VISION   RESEARCHER AT SHENASA.AI	<i>Personal Page</i>