ALIREZA HOSSEINI Website 🔽 alireza.hosseini.7711 AI Developer 910 9694 866 Arhosseini77 Tehran, Iran fin arh77 RESEARCH INTERESTS SKILLS Deep Learning, Computer Vision Languages: Python, MATLAB, HTML, C/C++. Saliency Map Prediction, Cognitive science AI Tools: PyTorch, OpenCV, TensorFlow, NPM. Implicit Neural Representation Others: Docker, Git, Linux, AI Model Serving, Fast- Generative Models, OCR API. **EDUCATION** Master of Science - MS, Telecommunication Systems 9/2022 - now University of Tehran Grade: 18.19/20. Thesis: Analyzing and improving the performance of networks for predicting human visual saliency map in images and investigating their use in the field of neuromarketing 9/2017 - 3/2022 Bachelor of Science - BS, Electrical and Electronics Engineering Iran University of Science and Technology Grade: 17.03/20. Thesis: Diagnosing and Detection and of internal combustion engine accessories belt for health monitoring and performance investigation; a Machine Vision approach 9/2013 - 9/2017 **High School Diploma, Mathematics** National Organization for Development of Exceptional Talents (Sampad) PUBLICATIONS SUM: Saliency Unification through Mamba for Visual Attention Modeling WACV2025 Github Alireza Hosseini, Amirhossein Kazerouni, Saeed Akhavan, Michael Brudno, Babak Taati Brand Visibility in Packaging: A Deep Learning Approach for Logo Detection, Saliency-Map Prediction, Arxiv 2024 and Logo Placement Analysis Github Alireza Hosseini, Kiana Hooshanfar, Pouria Omrani, Reza Toosi, Ramin Toosi, Zahra Ebrahimian, Mohammad Ali Akhaee · Submitted to Applied Soft Computing Journal **INCODE: Implicit Neural Conditioning with Prior Knowledge Embeddings** WACV 2024 Github · Amirhossein Kazerouni, Reza Azad, Alireza Hosseini, Dorit Merhof, Ulas Bagci ICWR 2024 Hybrid Retrieval-Augmented Generation Approach for LLMs Query Response Enhancement Pouria Omrani, Alireza Hosseini, Kiana Hooshanfar, Zahra Ebrahimian, Ramin Toosi, Mohammad Ali Akhaee Farsi CAPTCHA Recognition Using Attention-Based Convolutional Neural Network ICWR 2023 Alireza Hosseini , Matine Hajyan, Ramin Toosi, Mohammad Ali Akhaee ASE 2022 Machine vision-based measurement approach for engine accessory belt transverse vibration based on deep learning method · Ashkan Moosavian, Alireza Hosseini, Seyed Mohammad Jafari, Iman Chitsaz, Shahriar Baradaran Shokouhi Journal: Automotive Science and Engineering 2022 Development of Machine Vision System to Track Movement of an Engine Timing Belt Tensioner Based ER 2022 on Deep Neural Network · Alireza Hosseini, Moosavian Ashkan, Saeed Javan, Shahriar B Shokouhi Journal: The Journal of Engine Research 2022 **EXPERIENCE** 7/2022 - now Artificial Intelligence Developer Adak Vira Iranian Rahjoo (AVIR) Saliency-map prediction, OCR, TTS, ASR, RAG, Motion Capture, Pose Estimtion, Data analysis, Wav2lip, Scanner Module, Cartoonize video, Fast-API, Triton, Dockerize, etc 1/2023 - 11/2023 Artificial Intelligence Developer University of Tehran Project: Eye Tracking , Neuromarketing Supervisor: Dr. Mohammad Ali Akhaee, Associate Professor at the University of Tehran

12/2021 - 09/202	 2 Artificial Intelligence Developer Project: Persian HandWritten OCR 	University of Tehran
7/2021 - 7/2022	 Supervisor: Dr. Monammad Ali Aknaee, Associate Professor at the Computer Vision Researcher Detection and diagnosis of internal combustion engine accessories 	Iran Khodro Powertrain Company (IPCO) s belt - Deep learning Aproaches
TEACHING EXPE	RIENCE	
Spring 2024	Machine Learning - Dr. A. Dehaqani, Dr. Tavassolipour	University of Tehran
Spring 2024	Blind Source Separation - Dr.Akhavan	University of Tehran
Fall 2023	Machine Learning - Dr. N Araabi, Dr. A. Dehaqani, Dr. Tavassolipour	University of Tehran
Spring 2022	Advance Logical Circuit - Dr. Mirzakuchaki	Iran University of Science and Technology
Fall 2021	Logical Circuit - Dr. Mirzakuchaki	Iran University of Science and Technology
PROFESSIONAL	SERVICES	
08/2024	Journal Reviewer for IEEE Transactions on Multimedia	
10/2021	Journal Reviewer for PLOS ONE	
RELATED COUR	SES	
Fall 2023	 Analysis and Design of Deep Neural Networks [Github] Dr. Kalhor and Dr. N Araabi, Grade: 19.6/20 	University of Tehran
Fall 2023	 Deep Generative Models [Github] Dr. Tavassolipour and Dr. Sadeghi, Grade: 19.6/20 	University of Tehran
Spring 2022	Machine Learning [Github] • Dr. A. Dehaqani, Dr. Tavassolipour, Grade: 20/20	University of Tehran
Fall 2022	Blind Source SeparationDr. Akhavan, Grade: 18.6/20	University of Tehran
Fall 2022	Deep LearningDr. Kalhor, Grade: 18.5/20	University of Tehran
Fall 2022	Information Theory and LearningDr. Sabbaghian, Grade: 18.9/20	University of Tehran
Spring 2021	Digital Signal ProcessingDr. B Shokouhi, Grade: 20/20	Iran University of Science and Technology
CERTIFICATION	5	
10/2023	Introduction to Generative AI	Coursera
10/2021	Build Basic Generative Adversarial Networks (GANs)	Coursera
10/2021	Fundamentals of Project Planning and Management	Coursera
10/2021	Successful Negotiation: Essential Strategies and Skills	Coursera
08/2021	Deep Neural Networks with PyTorch	Coursera
08/2021	Advanced Computer Vision with TensorFlow	Coursera
06/2021	Deep Learning A-Z™: Hands-On Artificial Neural Networks	Udemy
04/2021	Complete Python Bootcamp from Zero to Hero in Python	Udemy
LANGUAGES —	English - Professional working proficiency, Persian - native	