Hamid MOHAMMADI

Personal Information

BIRTH:	Iran | 23 July 1996
RESIDENCE:	Tehran, Iran
EMAILS:	hamid.mohammadi@aut.ac.ir | sandstormeatwo@gmail.com
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Work Experience

OCT 2021 - PRESENT

Computer Vision Engineer: FarazPardazan

My focus here was to develop web and mobile friendly computer vision solutions for automated identity evaluation and optical information extraction. I am involved in projects Face Detection and Recognition, Liveness Detection, Visual Brand Identification, Credit and ID card OCR

Website: Farazpardazan.com

JULY 2019 - SEP 2021

Computer Vision Engineer: Sensifai

Building intelligent **surveillance** services, I was involved in several projects including **face detection and recognition**, **fire detection**, **violence detection**, **object detection**, **motion localization**, and so forth. Moreover, I participated in designing and implmenting efficient **real-time hardware-accelerated multi-stream video analysis** tools.

Website: Sensifai.com \| Sentiligence.com

NOV 2016 - SEP 2017

Junior Big-Data and Artificial Intelligence Engineer: Yooz Search Engine

My task as an artificial intelligence **Engineer** in this company was to help the web search team attain its goals by designing and implementing artificial intelligence solutions mainly related to Natural Language Processing and Machine learning. Some of these projects are **Duplicate and near-duplicate document detection in big data applications**, which mainly was about dimensionality reduction, and **Persian text difficulty assessment** and **Persian transliteration**, which were implemented in Big-Data environments.

Website: Yooz.ir

SEP 2016 - NOV 2016

Summer Internship: Yooz Search Engine

In this summer internship, I worked on projects such as **Persian sentiment analysis**, **Persian text similarity measurement**, and **offensive words filtering**.

Website: Yooz.ir

SEP 2015 - AUG 2016

Android Developer: Noghteh Web Services

My primary goal in this company was to design and implement the "ClassPlus" android application, an educational management, and a self-assessment assistant.

Linkedin: Noghteh Web Services

EDUCATION

SEP 2019 - PRESENT	**AMIRKABIR UNIVERSITY OF TECHNOLOGY** Master of Science, Artificial Intelligence Thesis: semi-supervised video violence recognition and localization
SEP 2014 - DEC 2018	**K. N. TOOSI UNIVERSITY OF TECHNOLOGY** Bachelor of Science, Computer Engineering Thesis: text readability assessment using deep reinforcement learning

COMPUTER SKILLS

FLUENT PROGRAMMING LANGUAGES	Python
MACHINE LEARNING CONCEPTS	Deep Architectures (Classification, Regression, Transformers, Recurrent) Computer Vision (Classification, Detection, Vectorization) Natural Language Understanding (Classification, Vectorization) Reinforcement Learning (Q-Learning, DRL) Classical Models (SVM, Random Forest, ...)
FRAMEWORKS AND TOOLS	Tensorflow + Keras (CPU-GPU) Scikit-learn OpenCV Python NumPy, SciPy, Matplotlib PyTest (tox) Docker DeepStream framework and tools GStreamer framework and tools FFmpeg TensorRT Setuptools Git/GitLab Latex CVAT
ALSO FAMILAR WITH	TenorflowLite ONNX TensorflowJS AWS Elastic Computing Celery Redis
FAMILIAR PROGRAMMING LANGUAGES	Java C/C++ Assembly 8086 C Embedded Matlab Javascript
OPERATING SYSTEMS	Linux (Ubuntu)

RESEARCH EXPERIENCE

Hamid Mohammadi, Ehsan Nazerfard, "SSHA: Video Violence Recognition and Localization using a Semi-Supervised Hard-Attention Model"
Master Thesis, Submitted to Expert Systems with Applications Journal, | arXiv:2202.02212

Hamid Mohammadi, Seyed Hossein Khasteh, "Text as Environment: A Deep Reinforcement Learning Text Readability Assessment Model"
Preprint | arXiv:1912.05957

Hamid Mohammadi, Seyed Hossein Khasteh, Amin Nikoukaran, "A Machine Learning Approach to Persian Text Readability Assessment Using a Crowdsourced Dataset"
Accepted at 2020 28th Iranian Conference on Electrical Engineering (ICEE) | arXiv:1810.06639

Hamid Mohammadi, Seyed Hossein Khasteh, "A Fast Text Similarity Measure for Large Document Collections Using Multi-reference Cosine and Genetic Algorithm"
Published at Turkish Journal of Electrical Engineering Computer Sciences | TJEECS

Hamid Mohammadi, Amin Nikoukaran, "Multi-reference Cosine: A New Approach to Text Similarity Measurement in Large Collections"
Preprint | arXiv:1810.03099

Teaching Experience

Teaching Assistant	Theory of Formal Languages and Automata Oct 2017 - Feb 2018, Sep 2018 - Feb 2019 Computer Structure and Language Oct 2017 - Feb 2018, Feb 2018 - Jun 2018, Sep 2018 - Feb 2019 Principles of Compiler Design Feb 2018 - Jun 2018 Computer Networks Feb 2018 - Jun 2018 Computer Architecture Oct 2017 - Feb 2018

Languages

English:	Full professional proficiency Duolingo: 140/160 (Aug 2022) Literacy: 150, Comprehension: 150, Conversation: 110, Production: 105 TOEFL-iBT: 106/120 (Sep 2018) Reading: 29, Listening: 30, Speaking: 23, Writing: 24