Mohammad Mahdi **Maghouli**

■ maghouli.mahdi@gmail.com | # mmahidm.com | @ mmahdim77 | 🛅 linkedin.com/in/mmahdim | 💆 Maghouli_mahdi

Education

B.Sc in Computer Engineering

Tehran, Irai

SHAHID BEHESHTI UNIVERSITY

Sept. 2017 - Expected Feb. 2022

· CGPA: 3.54/4

Relevant Work Experience

Data Engineer and Front-end Developer (Remote)

Manchester, UK

SAFE STREAM LTD %

Jul 2020 - Aug 2021

- Developed a large scale (over 15,000 classes), imbalance, and accurate (over 98%) object recognition model to detect grocery shelf images' inventory with the help of ResNet and Markov models.
- Developed a web application to semi-automatically annotate data, implemented with React, Django, and Postgresql.
- Developed a super-fast **E-commerce web application** to make the **entire grocery store online** based on the **store's shelf images in less than 15 minutes**
- Developed a real-time Vision-Based Quality Control system for production lines. (especially to detect anomalies and defects)

Founder and Developer

Tehran, Iran Nov 2012 - Sep 2016

MOFID EDUCATION CHAMPION (MECH)

• Developed and managed an **online course provider** specifically for high school students in Iran.

Internship

Safe Stream LTD % Manchester, The UK

COMPUTER VISION R&D

Apr 2020 - Jul 2020

- Analyzed several papers in the field of Computer vision (including image segmentation and large-scale object recognition).
- Developed object detectors based on Yolo, CNN, R-CNN and faster R-CNN algorithms

DigiKala-Next Winter Al Bootcamp %

Tehran, Iran

DIGIKALA-NEXT

Dec 2019 - Feb 2020

• Developed an ensemble model to detect fraud comments and pursued professional education within the field of NLP.

Skills

Programming Languages Java, Python, C/C++, MATLAB

Web Developement React, HTML, CSS, JavaScript, TypeScript Flask

ML Toolkit Tensorflow, Keras, Pytorch, scikit-learn

Frameworks MATLAB and Simulink

Libraries pandas, NumPy, Matplotlib, CV2, Pillow

Databases MySQL, PostgreSQL

Developer Tools Git, Docker, Amazon AWS, Elasticsearch, Kibana

Selected Projects

Detect explicit content in videos (Fight and Alcohol Detection) %

Python, Pytorch,

Fall 2020

- Developed a model to detect **explicit content** (such as alcohol use and fight scenes) **in movie** frames with an accuracy of **more than 97**% using the **ResNet**
- Employed a **pace estimator** to increase fight detection accuracy

Target Advertising, Audience classification %

PYTHON, SCIKIT-LEARN Spring 2020

- Developed and analysed machine learning models to classify and target customers using xgboost classifier.
- Done feature engineering and data visualization on over 40000 real estate data and developed models for targeting audiences.

Document Classification

PYTHON, TENSORFLOW, SCIKIT-LEARN, BERT,

Fall 2020

• Using Deep Learning and Natural Language processing to classify more than 150,000 Persian news documents into six main classes and 25 sub-classes with 91% accuracy.

Honors & Awards

2021	Qualified for best CE Bachelor Thesis in spring semester 2021, Shahid Beheshti University	Tehran, Iran
2017	Ranked in the Top 0.7% of participants out of 180,000 candidates , Nationwide Iranian University	Tehran, Iran
	Entrance Exam, Mathematics and Physics branch.	
2020	Ranked 3rd , DigiKala, Fraud Detection Contest in Quera website.	Tehran, Iran
2020	Ranked 9th among 703 contestants , Rahnema-Collage, Machine Learning Contest in Quera website.	Tehran, Iran

Certifications

2020	IEEE Certificate of Completion, Introduction to Deep Learning for Natural Language Processing &,
	IKT2020

- Participate in Asia Pacific Innovation Forum 2019: Technology Start-ups for Sustainable Development %, United Nations ESCAP
- 2015 TRIZ Methodology (Level B 24 hours) Certificate of attendance %, Altshuller Institute TRIZ