

Masoud Masoumi Moghadam

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EXPERIENCE

TVCONAL SPORTS ANALYTICS | COMPUTER VISION EXPERT

May 2021 – Present | Singapore

- Collaborated in a real-time decision review system (DRS) for Cricket.
- Contributed to building an end-to-end system for a real-time fault detection system in cricket sport that determines players' overstepping and over-extension faults. [More details are available in the paper.](#)
- Deployed a deep-learning solution for volleyball game analytics and [open-sourced here.](#)
- Trained ball tracking for table tennis and reduced its latency using TensorRT conversion; Improved the inference speed to 150 fps.

PARTAI RESEARCH CENTER | COMPUTER VISION EXPERT

Jan 2019 – Apr 2021 | IRAN

- Trained and deployed face recognition and gesture recognition models for Signal app remote identity proofing; obtained 98% on PR-curve score.
- Led and supervised the team to deploy a Siamese network model to enable user biometric identity verification on a catering system; Fully automated the daunting manual tasks.
- Implemented person tracking on real-time footage from RTSP camera; it is [open-sourced here.](#)
- Deployed an end-to-end system that utilizes segmentation models that can detect damages in wind turbine blades.

NATIX STARTUP | COMPUTER VISION ENGINEER

Aug 2020 – Dec 2020 | Germany, Frankfurt

- Developed and maintained a mask detection model for the NATIX [virtual doorman project](#); enhanced the PR curve by 14%.

PROJECTS

VOLLEYBALL ANALYTICS | LEAD DEVELOPER

Oct 2023 – Mar 2024

- Trained, tested, and successfully deployed video classification model in real-time application to detect volleyball events.
- Fine-tuned yolov8 for volleyball-specific object detection, and improved the inference speed by TensorRT compression.

HEXPY GAME PLAYER | MSC THESIS PROJECT

Jan 2015 – Jan 2018

- Successfully built a reinforcement learning-based game player engine and further implemented over 10 different algorithms for the benchmark.
- You can read more about the algorithms and implementations in my [towardsdatascience articles.](#)

EDUCATION

URMIA UNIVERSITY OF TECHNOLOGY

MASTER OF SCIENCE IN

INFORMATION OF TECHNOLOGY

Urmia, IRAN

Thesis: [Optimization of Tree Search with Reinforcement Learning-based Algorithms](#)

Cum. GPA: 3.8 / 4.0

SKILLS

PROGRAMMING

Python • C/C++

PHP • JavaScript

TECHNOLOGY

• Git • AWS • Linux

• Tensorflow • PyTorch

• ffmpeg • Pandas • OpenCV

• Django/Flask • FastAPI

• OpenVino

COURSEWORK

MSC COURSES

- Bio-Inspired Algorithms
- General Neural Network
- Advanced Computer Networks
- Pattern Recognition
- Data Mining
- Image Processing

LINKS

- LinkedIn Account: [m-m-moghadam](#)
- Github Account: [masouduut94](#)
- Medium Articles: [m-m-moghadam](#)
- Kaggle Notebooks: [m-m-moghadam](#)
- StackOverflow Profile: [masouduut94](#)