

Masoud Khairi Atani



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masoudka.com

Education

SEP 2023 -
PRESENT

MEng in Engineering Science

Simon Fraser University

GPA: 4.33

Courses: Deep Learning, Robotics, Linear Systems, Stochastic Processes

SEP 2018 -
AUG 2021

MSc in Artificial Intelligence & Robotics

Sharif University of Technology

Thesis: *Semi-Supervised Segmentation using Adversarial Networks*

Courses: Machine Learning, Convex Optimization, 3D Computer Vision, Image Processing

SEP 2014 -
JUN 2018

BSc in Computer Engineering

Qazvin Azad University

Professional Experience

AUG 2021 -
SEP 2022

Machine Learning Engineer

Machine Learning Lab, Sharif University of Technology

- Simplified orchestration and provision of on-premise resources using Docker and Kubernetes.
- Setup and configured Kubeflow to provide necessary tools for developing ML pipelines.
- Trained and deployed various Distributed Deep Learning models using PyTorch.

SEP 2018 -
JUN 2021

Graduate Research Assistant

Sharif University of Technology - Image Processing Lab

- Proposed utilization of Generative Adversarial Networks in Semantic Segmentation of RGB-D datasets of Indoor scenes using PyTorch, PIL, and OpenCV.
- Implemented proposed modular attention module using PyTorch

Skills

Programming

- Python, C++, Java, SQL, MATLAB

Tools & Libraries

- PyTorch, Tensorflow, Keras, MLib, Kubeflow
- Scikit-learn, Pandas, Numpy, Scipy, PySpark, OpenCV
- Kubernetes, Docker, Git, Linux, Jupyter

Projects

JAN 2022	Setup and Configured Kubernetes and Kubeflow for Distributed ML deployments
JUN 2021	Implemented a proposed attention module using PyTorch
NOV 2020	Implemented an Image to Latex converter using an Autoencoder with PyTorch, OpenCV, and Torchvision
JAN 2020	Implemented SVM using Interior Point Methods
AUG 2017	Football, Obstacle, and Landmark Detection for humanoid Robots using OpenCV C++

Awards & Honors

AUG 2018	Ranked 21 st among more than 26,000 participants in Nation-wide M.Sc. Entrance Exam
JUN 2018	Ranked 1 st in the class 2018 of Computer Engineering in Qazvin Azad University
APR 2017	2 nd place in Robocup Iran Open

References

Available upon request
