

Masoud Khairi Atani

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Education

SEP 2023 –
AUG 2025
EXPECTED

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

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

- 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

Image Processing Lab, Sharif University of Technology

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

Skills

Programming

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

Tools & Libraries

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

Awards & Honors

- Ranked 21st among more than 26,000 participants in Nation-wide M.Sc. Entrance Exam
- Ranked first in the class 2018 of Computer Engineering in Qazvin Azad University
- Second place in Robocup Iran Open

Projects

Setup and Configured Kubeflow for distributed ML deployments

- Configured Provisioning of on-permise resources using docker and Kubernetes.
- Setup Kubeflow inside Kubernetes
- Deployed Image Classification and Linear Regression using distributed Pytorch

Implemented a proposed attention within a U-Net using PyTorch in Python

- Implemented proposed attention module to capture local dependencies for semantic segmentation on indoor scene datasets using PyTorch

Implemented an Image to Latex converter

- Implemented converter with an Autoencoder which used CNN for image feature extraction and RNN for text feature extraction
- Technologies used include PyTorch, OpenCV, and Torchvision in Python

Implemented object detection for Football, Obstacle and Landmarks for Robots using OpenCV C++

- Detection of various objects using classical image processing techniques such as edge detection, Hough transform