

Fatemeh Behrad

Artificial Intelligence Engineer

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Skills

Deep learning	
Machine learning	
Python (Numpy, Pandas, Scikit-learn, OpenCV, etc.)	
Tensorflow	
Keras	
Pytorch	
Computer vision	
Image inpainting	
Image segmentation	
Object detection	
Evolutionary computing	
Docker	
FastAPI	
Linux	
Git	
Data visualization (Matplotlib, excel)	
Natural language processing (NLP)	
Weka	

Projects and Experience

June 2022- Current **Computer vision engineer**

Revivoto - Tehran

- Worked on an image inpainting project using state-of-the-art methods such as Lama and ZITS.
- Image classification and segmentation (detectron2)

- Hand pose estimation (mediapipe)

Apr 2022

Pricing Products

Freelancer – Tehran

- Predicted the price of products according to the descriptions provided by sellers.

Apr 2021 – Jan 2022

Neural Network Pruning

Tarbiat Modares University – Tehran

- Pruned redundant filters of a U-Net-based network using different criteria, including l2-norm, APoZ, and the genetic algorithm, without performance degradation.

Dec 2020 – Mar 2021

Brain Tumor Segmentation and Survival Time Prediction

Tarbiat Modares University – Tehran

- Identified brain tumor sub-regions in MRI using a pruned CNN.
- Predicted overall survival time of patients using the pruned CNN and machine learning algorithms (XGBoost, Random forest, linear regression, and SVR).

July 2020

Object Detection Project

Tarbiat Modares University – Tehran

- Car detection using the YOLO algorithm.

Oct 2019 – Dec 2019

Content Based Image Retrieval System

Tarbiat Modares University – Tehran

- Developed a CBIR system using local features in images and SVM.

Jan 2018 – Aug 2018

Data Science Intern

Toobatech – Tehran

- Opinion mining and Sentiment analysis.
- Data visualization.

Education

2019-2022

Master of Science: Artificial Intelligence

Tarbiat Modares University – Tehran

- GPA: 18.08/20
- Thesis title: Survival time prediction in patients with brain tumor using evolutionary deep learning

2015-2019

Bachelor of Science: Computer Software Engineering

Alzahra University - Tehran

- GPA: 19.04/20 (Rank: 1/20)
- Final project title: Sentiment analysis on online product reviews

Publications

Under review	Title: Evolutionary convolutional neural network for efficient brain tumor segmentation and overall survival prediction Journal: Expert Systems with Applications (Q1, impact factor: 8.665)
March 2022	Title: An overview of deep learning methods for multimodal medical data mining Journal: Expert Systems with Applications (Q1, impact factor: 8.665)

Certifications

Jun 2022	Introduction to Computer Vision and Image Processing, IBM
May 2022	What is data science?, IBM
Jan 2021	Getting started with Tensorflow 2 , Imperial College London
Nov 2020	Build Basic Generative Adversarial Networks, DeepLearning.AI
Nov 2020	AI for Medical Prognosis, DeepLearning.AI
Jul 2020	Deep learning specialization, DeepLearning.AI
Jul 2020	AI for Medical Diagnosis, DeepLearning.AI

Languages

- Persian, Native
- English, IELTS Overall band score: 8
- French, beginner