

Fatemeh Behrad

Artificial Intelligence Engineer

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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

Projects and Experience

Apr 2022

Pricing Products

Freelancer - Tehran

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

Oct 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 - Sep 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).

Jul 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.

Publications

March 2022

Title: [An overview of deep learning methods for multimodal medical data mining](#)

Journal: Expert Systems with Applications (Q1, impact factor: 6.954)

Skills

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

Certifications

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