Farbod Farhangfar

farbod.farhangfar4@gmail.com
phone : +98 994 165 3285
linkedin.com/in/farbod-farhangfar/

SUMMARY:

- I am a highly motivated student with a research background in **deep learning** and **medical images**. I have teaching experience, worked in research groups and improved **natural language processing for chatbots**, and worked with computer vision models.
- I am an experienced programmer and Python developer, with 5 years of experience in academic and industrial projects. Including artificial intelligence, web application, and algorithm design. I also worked on full **research projects for development** including a **virtual fitting room (computer vision - magifits.com)** and recommender system.

EDUCATION:

- Bachelor's degree in computer software engineering
  - Shahrekord University 2017-2021
    Final project: Medical Image classification. | 20 out of 20
- Relevant Projects:
  - TF-IDF for text feature extraction
  - Text classification for sentiment analysis
  - Comparing Multiple machine learning methods, including:
    neural networks, decision tree, ...
  - Implanted an expert system for medical questioning
  - Implanted multiple search algorithms for a game agent in a grid

RESEARCH EXPERIENCE:

- Worked on a paper for Detecting cancer cells using **Ensemble** deep learning methods including Densenet, Condesnet, and VGG using **probability distribution** and **proper scoring rules**.
  - final stages (writing the paper)
- Worked on a paper based on Information Fusion for the **probability density function** using **supra-Bayesian fusion.**
- Worked with Signal processing projects including
  - Worked on **WESAD dataset** to detect human physiological and motion data as part of a side project.
  - Worked with tacotron 2 project to detect and modify audio as part of a side project.

RESEARCH INTERESTS :

- Deep learning
- Medical image processing
- Natural language processing
- Multi-modal networks
- Reinforcement learning

REFERENCES:

- **Dr. Mohammad Ehsan Basiri** ..... basiri@sku.ac.ir
  - Associate Professor of Artificial Intelligence, Shahrekord University
    https://scholar.google.com/citations?user=D77IvVUAAAAJ h-index= **23**
- **Moloud Abdar** ..... m.abdar@deakin.edu.au
  - Ph.D. student, Deakin University, Australia
    https://scholar.google.com/citations?user=PwgggdIAAAAJ h-index= **31**

WORK EXPERIENCE:

NAFUN International (Nafun tech)
AI programmer and designer | since 2021

- Worked on a **virtual fitting room** using multiple types of **image segmentation** under the supervision of **Dr. Fariba Shaker** (magifits.com)
- Worked on **Bert-based Chatbot** and Implanted it's backend.

Freelancer
Python developer | since 2017 github: github.com/FarbodFarhangfar

- Optimized RSA encryption (Python)
- Cooking recipe website (Django REST framework)
- Captcha solver (Keras)
- Spline-Visualizing-Service: display spline lines on an image (OpenCV, Matplotlib)

TEACHING EXPERIENCE:

- Organized and taught multiple **"Python programming language" classes** for university students at Shahrekord University, 2019
- Helped and taught several students for master's and bachelor's final projects

LANGUAGE SKILLS:

- English: TOEFL iBT Score: 103 out of 120 | Test Date: December 04, 2021
  -Reading: 26 -Listening: 29 -Speaking: 24 -Writing: 24
- Persian: Native
- Turkish: I can speek (family language)

SKILLS:

- Python
- Pytorch
- Keras
- Tensorflow
- scikit- learn
- Pandas
- OpenCV
- Matplotlib
- Numpy
- Scipy
- NLP
- Machin vision
- Chatbots
- Datapiplines
- Matlab
- Django
- Flask
- C++
- SQL
- AWS

COURSES:

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models
- Mathematics for Machine Learning: Linear Algebra
- Mathematics for Machine Learning: Multivariate Calculus
- Mathematics for Machine Learning: PCA
- Become a Probability Statistics Master