SOROUSH FARROKHNIA

Computer Engineering

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Education

B.Sc. in Computer Engineering 🎓 *University of Yazd*

📅 2018 📍 Yazd, Iran

- University of Yazd is the first university in the province. to enter the Faculty of Computer Engineering, you must be the top 0.1% among 500,000 participants in the *Iranian Nationwide University Entrance Exam.*
- B.Sc. Thesis Project:*Topic-Based Classification and Suggestion System for news articles*
  - **Supervisor**: Prof. Ali Mohammad Zareh
  - Selected as the **best thesis project** among 50 students.
- Last Two Years' GPA: 17.72/20

Diploma in Math and Physics Discipline 🎓 *Hashemi Nejad*

High School

📅 2009 - 2013 📍 Mashhad, Iran

- Affiliated with the National Organization for Development of Exceptional Talents (NODET)

Research & Work Experience

Present
Jun. 2017

Data Analyst 📍 *Huma co.*

- Expanded a recommendation and trend detection system based on user's behavior with help of machine learning(mostly neural networks) Approaches such as RNN, Word2Vect , TreNet
- Designed and implemented a data crawling tools with the ability to be personalized

Tehran, Iran, **Supervisor**: Behnam Shakibafar

2017
2015

Nexus3D, RoboCup Soccer Simulation Team 📍 *Nexus*
Research Lab

- Expanded and evaluated real-time decision making and tactical behavior approach with potential fields

Ferdowsi University of Mashhad, Mashhad, Iran, **Supervisor**: Prof. Ahad Harati

Sep. 2016
May 2016

Intern 📍 *Ashian co.*

- Contributed to a smart lighting platform that Allows users to select the brightness of the house based on their interests and habits

Mashhad, Iran, **Supervisor**: Behnam Shakibafar

Research Interest

- Machine Learning, Esp. Deep Learning
- Natural Language Understanding Esp. Machine Translation and Text Summarization
- Big Data, Data Analytic, and Data-Driven software
- Recommendation Systems, Esp. Text-based suggestion

Skills

Programming Languages: Python | Java
Familiar With: Android Development Kit
C/C++ | SQL | Matlab

Framworks and Tools: Scikit-Learn
TensorFlow | Django | Flask | PyQt | Scrapy
Pandas | Statsmodels | PySpark

Data Visualization: Kibana , Matplotlib ,
Seaborn

Databases: PostgreSQL | ElasticSearch | Redis
Familiar With: MySQL | MongoDB

OS: Linux(Ubunu) | Raspberry Pi OS

Other: Nginx | Git | VSCode | LaTeX

Honors & Awards

🏆 **Selected as best thesis project among 50 students, Department of Computer Engineering, University of Yazd**
Yazd, Iran 📅 2018

🏆 **Ranked 3rd in the 10th International RoboCup IranOpen Competitions as Nexus3D, Ferdowsi University of Mashhad 3D simulation Team**
Tehran, Iran 📅 Apr, 2015

Languages

English ●●●●○
Persian ●●●●●

Notable Projects

Huma Recommendation And Trend Detection System   ⍟ *Huma co.*

- Developed a rest-full web service to train, test, and deploy machine learning models.
  - Trained a Persian language model on 3 million collected data With the implementation of Word2Vect
  - Trained and deployed a TreNet model based on the frequency of topics to detect trends
  - Trained and deployed an RNN model based on the behavior of users to classify and suggest documents

Python Django Tensorflow Scikit-learn

Huma Data Crawler

- Developed and Maintained crawler tools and as result over 3 million pages were parsed, classified and stored in 2 years Python Scrapy Beautifulsoup

XMonitor: An Oscilloscope Application   ⍟ *Mehr Kavir co.*

- Designed and developed a graphical interface to visualize real time data in personalized graphs and charts based on QT libraries
  - Implement asynchronous task scheduling to let users communicate with the equipment's through a graphical interface based on socket connection and RS232 port

Python QT Libraries PySerial RS232

Smart Lighting Platform   ⍟ *Ashian co.*

- Designed an API to allow mobile and third-party clients to control ZigBee devices in mesh networks
  - Implemented an auto-detection home lighting based on user behavior and time of day based on current data of light sensors and previous user's behaviors (With the implementation of Epsilon-Support Vector Regression)

Python Flask Scikit Learn

Papkorn: Movie Recommendation API   ⍟ *Self Project*

- Developed a movie recommendation web service that helps over 27k users to search and find their favorite movies based on their interests
  - Trained and deployed RNN model based on user behaviour on movie-lens data-set and Papkorn data-set in order to suggest movies based on users interests.

Python Django Tensorflow Scikit-learn

Selected Courses

Basic of Information Retrieval and Web . . . . Prof. A. Zareh, 19.5 / 20 (*first in the class among 32 students*)

Introduction to Algorithms . . Prof. F. Ensan, 20 / 20 (*first in the class among 40 students*)

Foundation of Data Mining . . . . Prof. M. Pajoohan, 17 / 20

Data Structure and Algorithms . . Prof. h. amintoosi, 18.5 / 20

Teaching Assistantships

Introduction to Algorithms	Prof. F. Ensan	Fall 2015

Extracurricular Activities

- Worked as bartender and board-game expert at board-game cafe, Yazd, Iran
- Appreciated as photographer in the 1st Film Festival for Children and Youth, Mashhad, Iran

References

Ali Mohammad Zareh
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Faezeh Ensan
Assistant Professor
⍟ Ryerson University
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