

Fateme Bafghi

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EDUCATION

- University of Isfahan, Isfahan, Iran
M.Sc., Artificial Intelligence
September 2016 - September 2019
GPA: 3.56 /4
- Isfahan University of Technology, Isfahan, Iran B.Sc., Computer Engineering, Software Engineering
September 2012 - September 2016

RESEARCH INTERESTS

- Machine Learning
- Machine Vision and Image Processing
- Deep Learning
- Multiple Object Tracking
- Video Analysis
- Natural Language Processing

HONORS AND AWARDS

- Top 8% in Iran University Entrance Exam for MS
- Iran Top 2% in Iran University Entrance Exam for BSc

RESEARCH EXPERIENCES

Multiple Object Tracking in Highways Using Appearance Models and Visual Object Tracking - M.Sc. Project, (*January 2017 - December 2019*)

Tools: Python, OpenCV, SKLearn, Keras, Numpy, Pandas

developing a restaurant recommendation system in android with routing abilities - B.Sc. Project, (*March 2015 - September 2016*)

Tools: Java, SQLite

WORK EXPERIENCES

- AmerAndish Hooshmand(*March 2020 till now*)
Role: Senior Python Developer
Achievements:

- Developed first automatic answering machine based on AI to answer phones in Persian
- Developed first analyzer system for Iranian call centers based on their data packets
- Developed first Persian Automatic Question Answering systems on telephone for Irancell Customers

LANGUAGE PROFICIENCY

- Persian (Native) English(Fluent)
- **TOEFL** Overall:106 Listening:30 Reading:26 Speaking:26 Writing:24
- **GRE** : To be taken soon

TECHNICAL SKILLS

- **Machine Learning and Deep Learning Tools:** Keras and sklearn, Tensorflow, Opencv, Pandas, Numpy
- **Programming Languages:** Python, Java, C/C++, NodeJS
- **Database Systems:** MS SQL SERVER, ElasticSearch, SQLite
- **Operating System:** Windows, Linux (Ubuntu).
- **Other:** Redis, Docker, Git, RESTapi, Fastapi, kibana, Matlab
- **Miscellaneous:** LATEX, Photoshop, MS Office

PUBLICATIONS AND TECHNICAL REPORTS

- **Fateme Bafghi, Bijan shoushtarian, “Multiple-Vehicle Tracking in the Highway Using Appearance Model and Visual Object Tracking.”** The 11 Iranian and the first International Conference on Machine Vision and Image Processing (MVIP), (2020)..
- **Fateme Bafghi, “Human Activity Recognition in Smart Homes”** - report for Seminar course, University of Isfahan, 2018. (In Persian)
- **Fateme Bafghi “Developing a Restaurant Recommendation System in Android with Routing Abilities”** - B.Sc. Thesis, IUT, 2016. (In Persian)

PROJECTS

Top Academic Course Projects

- **Machine Vision,**
Detecting all open windows on Microsoft windows desktop
- **Pattern Recognition,**
Age and Gender Classification using Convolutional Neural Networks
- **Database,**
Implementing a database for book store in SQL server
Implementing a database for drug store in SQL server
Implementing a database for cinema in SQL server
- **Software Engineering I,**
Design of Tourism Management Software
- **Software Engineering II,**
Implementing a software for cinema management

Other Projects:

- **FaceKit**
A toolkit in order to detect, cluster and track faces in a video or bunch of images
- **Developing an online shop**

- MSSQL for developing the database
- NodeJS for developing the backend
- Android application for buyers and sellers

ONLINE COURSES

- **Deep Learning**, (May, 2021)
An online credit course authorized by Stanford University, presented by Dr. Andrew Ng, and offered by Coursera
- **Data Science**, (May, 2021)
An online credit course authorized by University of Michigan, presented by Dr. Christopher Brooks, and offered by Coursera

EXTRA- CURRICULAR ACTIVITIES

- Consultant of computer engineering in Young Advisor Group of Yazd, 2013-2015
- Active member of MADID Student Association, 2014-2015.
- Active member of Nemoone Student Association 2014-2015

REFERENCES

- **Bijan Shoushtarian, Associate Professor**
Computer Engineering and IT Department, University of Isfahan
Email: Shoushtarian@aim.com
- **Amir Hassan Monadjemi, Assistant Professor**
Computer Engineering and IT Department, University of Isfahan
Email: Amonadjemi@yahoo.co.uk
- **Abdolreza Mirzaei, Associate Professor**
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