RANA SANIEI

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Education

(2020- 2023): Marie Skłodowska-Curie PhD Fellowship

UNIVERSIDAD POLITÉCNICA DE MADRID, Ontology Engineering Group, Madrid, Spain.

Thesis Title: "Privacy Enhancing Semantic Technologies (PEST), supporting GDPR compliance'', (defined under the H2020 project **PROTECT**), **Supervisor:** Dr. Víctor Rodríguez-Doncel

(2013- 2016): Master of Science in Computer Engineering-Artificial Intelligence

Shahid Beheshti University, Tehran, Iran

Thesis Title: "A Pattern Recognition Framework based on Visual Cortex Structure with Fuzzy Methods", **Supervisor**: Dr. Mohsen Ebrahimi Moghaddam

GPA: 19.31/20

Relevant Courses: Machine Learning(19.1/20), Artificial Neural Network(20/20), Medical Image Processing(20/20), Image Processing(17/20), Ontology Engineering(19/20), Natural Language Processing(19.5/20), Statistical Pattern Recognition(20/20)

(2009- 2013): Bachelor of Science in Software Engineering

Shahid Beheshti University, Tehran, Iran

Thesis Title: "Automatic Detection of Malignant Tumors on Mammograms Using Image Processing Methods", **Supervisor**: Dr. Ahmad Mahmoudi Aznaveh

GPA: 17.48/20

Relevant Courses: Artificial Intelligence(20/20), Multimedia Systems(18.75/20), Image Processing(19.8/20), Design of Algorithms(17.75/20), Advanced Programming(19/20), Engineering Probability and Statistics(17/20), Computer Networks(19/20), Software Engineering(18.25/20), Internet Engineering(19.75/20), Computer Simulation(20/20),

(2005- 2009): High School Diploma (Math& Physics),

Roshangar High School, Tehran, Iran

GPA: 19.48/20

Research Interests

- Image Processing, Machine Vision, Pattern Recognition
- Ontology Engineering, Natural Language Processing
- Machine Learning, Data Mining
- Artificial Neural Networks, Deep Learning, Convolutional Neural Networks

Computer Skills

- **Programming Languages:**
  - MATLAB, JavaScript, Python, HTML, CSS, C#, Java
  - OWL, RDF, Prolog
- **Operating Systems:**
  - Expert in McOSx and Microsoft Windows
  - Familiar with Linux
- **DataBase:** Expert in NoSQL Databases such as MongoDB, and SQL DataBases such as MySQL.
- **Applications and Tools:**
  - **Machine Learning Tools:** TensorFlow
  - **Application Development Tools:** Visual Studio Code, Sublime Text, Jupyter Notebook
  - **Graphic Tools:** Adobe Photoshop, Final Cut Pro.

Languages: Farsi (Native), English (Fluent), Arabic (Familiar)

TOEFL iBT: **99** (Reading: 24, Listening: 27, Speaking: 24, Writing: 24)

Personal Skills: Excellent Organization, diligent and Undertaking, Passionate, Creative, Self-motivated and Team-oriented.

Selected Course Project:

Apr 2012 Implementation of a Napster like P2P file-sharing system using C#

May 2012 Implementation of a Download Manager in Java (Without Predefined classes)

Nov 2013 Implementation of a Satellite Image Contrast Enhancement Using Discrete Wavelet Transform and Singular Value Decomposition with MATLAB.

May 2014 Implementation of Training a feed-forward Neural Network with Genetic Algorithms with MATLAB.

Oct 2014 Implementation of Gait Recognition with GEI, GTI, and TGEI with focus on different camera angles and clothing challenges with MATLAB.

Honors and Awards

(Dec-2015): 1ᵗʰPlace among all Master Students of Artificial Intelligence, Shahid Beheshti University, Computer Engineering Department

(Apr-2015): 1ᵗʰ Place among all Bachelor Students of Software Engineering, Shahid Beheshti University, Computer Engineering Department

(Feb-2013): Admitted to Artificial Intelligence M.Sc. Program at Shahid Beheshti University without Entrance Examination

(Apr-2012): 5ᵗʰ Team in International Robocup in Iran Open Competition, Tehran, Iran

(Feb 2007): 2ⁿᵈ Place in 25ᵗʰ State Contest of Literature and Culture in Tehran, Iran

Experiences and Activities

- **Teaching:**
    - **Nov 2014- Feb 2015** Teaching Assistant for Artificial Neural Network, Shahid Beheshti University
    - **Nov 2013- Feb 2014** Teaching Assistant for Multimedia Systems, Shahid Beheshti University

- **Work Experiences**
    - **Full Stack Web Developer at Avid Arvand, Tehran, Iran (Jul 2016- Feb 2019):**

- Work in a talented team in an Agile environment, shipping the features in the small time as possible
- Experience in building Single Page Applications
- Advanced Knowledge of Node.Js, Backend and frontend Development
- Experience in building frontend UIs using JavaScript, CSS, HTML, etc.
- Expert in NoSQL DataBases such as MongoDB
- Experience with Git Source Control Systems
- Experience with Docker

- **Articles**
  - R. Saniei, A. Ghebleh, M. Ebrahimimoghaddam, "A Gait Recognition Technique based on Hierarchical Fuzzy Spiking Visual Recognition Model", Computing Science Journal, Vol.2, 2018. (In Persian)
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- **Activities:**
  - Member of Executive Team of "32nd International Conference on Legal Knowledge and Information Systems", Madrid, Spain
  - Attendee in 2-day Workshop "Deep Learning with TensorFlow", Sharif University of Technology, Tehran, Iran (March 2019)
  - Attendee in 30 hours Advance Course of "DataMining with Python", AlZahra University, Tehran, Iran (November-December 2018)
  - Member of Executive Team of "19th National CSI Computer Conference", Shahid Beheshti University, Tehran, Iran (March 2014)
  - Member of Robocup Team (Rescue Virtual Robots Simulation) (October 2011- March 2013)