

Ali Janalizadeh C.

Computer Eng. and IT Dept., Amirkabir University of Tech., 424 Hafez Ave., Tehran, Iran

Email: alijanalizadeh@aut.ac.ir and ali.janalizadeh@outlook.com

Home-Page: <http://ceit.aut.ac.ir/~janalizadeh>

Cell Phone: +98 938 367 3878

RESEARCH INTERESTS

- Reinforcement Learning
- Adversarial Learning
- Information Retrieval
- Computer Vision
- Opinion Mining
- Natural Language Processing
- Deep Learning
- Probabilistic Graphical Models

AREA OF INTEREST

- Revenue Prediction
- Dynamic Pricing
- Supply Chain Management
- Stock Prediction
- Customer Service Automation
- Sentiment Analysis

EDUCATION

- **Amirkabir University of Technology** (Tehran Polytechnic), Tehran, Iran
B.Sc., Computer Engineering, Information Technology
September 2014 - February 2019
GPA: **17.11** / 20 (120/140 Units)
- **Shahed High School**, Mazandaran, Iran
Diploma in Mathematics and Physics
September 2010 - June 2014
GPA: High School **18.93** / 20

PROFESSIONAL EXPERIENCE

- **Miras Technologies International**, *June 2017 - Present*
Data Scientist and Big Data R&D Engineer.

PUBLICATIONS

- **Advertisement Recognition Using Mode Voting Acoustic Fingerprint**,
September 2017
This research was done for developing an advertisement recognition system at Miras Technologies International(Conference Paper - ICRMV 2017).
- **MirasVoice A bilingual (English-Persian) speech corpus**, *February 2018*
This research was done at Miras Technologies International and is yet to be published (Conference Paper - LREC 2018).
- **MirasText An Automatically Generated Text Corpus for Persian**, *February 2018*
This research was done at Miras Technologies International and is yet to be published (Conference Paper - LREC 2018).

TEACHING EXPERIENCES

- **Teaching Assistant , Fundamentals of Data Mining,** *Spring 2017*
Under supervision of Prof. Nazerfard
Holding classes + Design and grading assignments and exams + Revising Syllabus
(approximately 50 Students)
- **Teaching Assistant , Advanced Programming,** *Spring 2017*
Under supervision of Prof. Noorhosseini
Design and grading assignments and exams + Revising Syllabus (116 Students)
- **Grader , Technical English,** *Spring 2017*
Under supervision of Prof. Momtazi
Grading assignments and exams (approx. 30 Students)
- **Teaching Assistant , System Analysis and Design,** *Fall 2016*
Under supervision of Mr. Pourvatan
Team coordinator + Holding classes + Design and grading assignments and projects (approx. 50 Students)
- **Teaching Assistant, Data Structures,** *Spring 2016*
Under supervision of Prof. Dehghan Takht Fooladi
Design and grading assignments (approximately 120 Students per semester)
- **Teaching Assistant , Principles of Programming,** *Fall 2015*
Under supervision of Dr. Shiry
Team coordinator + Holding classes + Design and grading assignments (approx. 50 Students)

SPECIALIZED COURSEWORK & CERTIFICATIONS

- Algorithms: Design and Analysis, Part 1
- Algorithms: Design and Analysis, Part 2
- Machine Learning
- Machine Learning Foundations: A Case Study Approach
- Machine Learning: Regression
- Neural Networks for Machine Learning
- Deep Learning Prerequisites: Linear Regression in Python
- Deep Learning Prerequisites: Logistic Regression in Python
- Data Science: Supervised Machine Learning in Python
- Bayesian Machine Learning in Python: A/B Testing
- Data Science: Deep Learning in Python
- Data Science: Practical Deep Learning in Theano + TensorFlow
- Ensemble Machine Learning in Python: Random Forest, AdaBoost
- Deep Learning: Convolutional Neural Networks in Python
- Easy Natural Language Processing (NLP) in Python
- Cluster Analysis and Unsupervised Machine Learning in Python
- Unsupervised Machine Learning: Hidden Markov Models in Python
- Unsupervised Deep Learning in Python
- Fundamentals of Digital Image and Video Processing
- Robotics: Computational Motion Planning
- Web Scraping and Crawling with Python: Beautiful Soup, Requests & Selenium
- Scrapy: Powerful Web Scraping & Crawling with Python

TECHNICAL SKILLS

- Stairway to Scala Applied, Part 1
- Docker Mastery: The Complete Toolset From a Docker Captain
- Grammar and Punctuation
- Programming for Everybody (Getting Started with Python)
- Object Oriented Programming in Java
- **Programming Languages:**
Expert in: Java, C/C++, Python,
Familiar with: Scala, MATLAB, R
- **Frameworks and Tools:**
Expert in: Tensorflow, Keras, Scipy, OpenCV
Familiar with: Akka, Docker, OpenGL, Theano, CUDA .
- **Database Systems:**
Expert in: Elasticsearch, MySQL
Familiar with: MongoDB.
- **Typesetting:**
L^AT_EX, Microsoft Word.
- **Operating System:**
Windows, Linux (Ubuntu and Debian).
- **Web Development:**
HTML5, CSS, Java Script, jQuery, XML.
- **Other:**
Microsoft Visio, Microsoft Excel, Microsoft Powerpoint, UML, Adobe Photoshop, Gimp.

REFERENCES

- **Mehdi Dehghan TakhtFooladi, Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: dehghan@aut.ac.ir
- **Saeed Shiry Ghidary, Assistant Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: shiry@aut.ac.ir
- **Seyed Majid Noorhosseini, Assistant Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: majidnh@aut.ac.ir
- **Maryam Amir Haeri, Assistant Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: haeri@aut.ac.ir
- **Ehsan Nazerfard, Assistant Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: nazerfard@aut.ac.ir
- **Bahman Pourvatan, Instructor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: pourvatb@aut.ac.ir
- **S.H.E. Mortazavi Najafabadi, COO**
Miras Technologies International
Email: mahdimortazavi@gmail.com

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