

# A. MIR

## CONTACT DETAIL

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## EDUCATION

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### Islamic Azad University

Feb. 2016 - Jan. 2019

M.Sc in Computer Science

Minor in Artificial Intelligence & Machine Learning

Thesis subject: Robust Twin Support Vector Machine for Noisy Data      Thesis grade: 4/4 (A+)

Overall GPA: 3.52 out of 4

Courses: Introduction to Artificial Intelligence, Artificial Neural Networks, Machine Learning, Statistical Pattern Recognition, Evolutionary Computation, Image Processing, Computer Vision, Natural Language Processing, Game Theory, Research Methodology

### University of Tehran

Oct. 2011 - Jul. 2015

B.Sc degree

Final project: Applications of Python Programming Language in Climatology

Courses: Discrete Mathematics, Data Structures, Algorithm Design, Digital Logic, Assembly Language, Operating Systems, Computer Architecture, Database Systems, Formal Languages and Automata, Design of Programming Languages

## WORK EXPERIENCE

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**Iranian Research Institute for Information Science and Technology**      July 2017 - Present  
*Research Assistant at Machine Learning and Text Mining Lab*      *Tehran, Iran*

### Achievements and Contributions

- Published two research papers in scholarly journals.
- Presented three research papers at international and national conferences.
- Designed and implemented machine learning algorithms in C++ and Python.
- Developed LightTwinSVM program for the research and classification tasks.
- Taught students to do research and solve problems.

## PUBLICATION

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### Journals

- A. Mir and Jalal A. Nasiri. An enhanced knn-based twin support vector machine with stable learning rules. *Neural Computing and Applications*, (Under review)
- Amir M. Mir and Jalal A. Nasiri. Lighttwinsvm: A simple and fast implementation of standard twin support vector machine classifier. *Journal of Open Source Software*, 4:1252, Mar. 2019
- A. Mir and Jalal A. Nasiri. Knn-based least squares twin support vector machine for pattern classification. *Applied Intelligence*, 48(12):4551–4564, Dec. 2018
- Jalal A. Nasiri, A. Mir, and Somayeh Fatahi. Classification of learning styles using behavioral features and twin support vector machine. *Journal of Technology of Education*, November 2018 [in Persian]

## Conferences

- A. Mir and Jalal A. Nasiri. Automatic opinion mining of movie reviews using robust twin support vector machine. In *4th Iranian Conference on Computational Linguistics*. Institute for Humanities and Cultural Studies, February 2018 [**in Persian**]
- A. Mir, Somayeh Fatahi, and Jalal A. Nasiri. Prediction of personality models in e-learning environments using twin support vector machine. In *2nd International Conference on Knowledge-Based Research in Computer Engineering and Information Technology*. Allameh Tabataba'i University, September 2017 [**in Persian**]
- A. Mir, Jalal A. Nasiri, and Somayeh Fatahi. Sentiment analysis of movie reviews using least squares twin support vector machine. In *1st Conference on Particples of Electrical and Computer Engineering*. Payame Noor University, July 2017 ] [**in Persian**]

## SOFTWARE PROJECTS

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### LightTwinSVM

<https://github.com/mir-am/LightTwinSVM>

A simple and fast implementation of standard TwinSVM classifier

- A simple console program for running TwinSVM classifier
- The clipDCD algorithm was improved and implemented in C++ for solving optimization problems of TwinSVM.
- Linear, RBF kernel and Rectangular are supported.
- Binary and Multi-class classification (One-vs-All & One-vs-One) are supported.
- It supports grid search over C and gamma parameters.
- Detailed classification result will be saved in a spreadsheet file.
- Used continuous integration services (Travis CI & AppVeyor) to build and test the program on Linux, OSX, and Windows systems.

## TECHNICAL SKILLS

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### Programming Languages Software Development

Python, C, Modern C++,  
Life Cycle, Clean Code, Debugging, Documentation,  
Continuous Integration, Profiling

### Operating Systems

Linux (Ubuntu), Windows

### Databases

MySQL, Microsoft SQL

### Source Control

Git, GitHub

### Typesetting

LaTeX

## RESEARCH INTERESTS

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- Machine Learning
- Pattern Classification
- Natural Language Processing

## LANGUAGES

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- English
- Persian