

# A. MIR

## CONTACT DETAIL

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## EDUCATION

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**Islamic Azad University**

Feb. 2016 - Present

M.Sc in Computer Science

Minor in Artificial Intelligence & Machine Learning

Thesis subject: Robust Twin Support Vector Machine for Noisy Data

Overall GPA: 3.41 out of 4

## WORK EXPERIENCE

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**Iranian Research Institute for Information Science and Technology** July 2017 - Present

*Research Asistant at Machine Learning and Text Mining Lab*

*Tehran, Iran*

### Achievements and Contributions

- Designed and implemented machine learning algorithms in C++ and Python.
- Published a refereed machine learning research paper in the Journal of Applied Intelligence.
- Developed LightTwinSVM program for the research and classification tasks.

## PUBLICATION

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### Journals

- 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. and Mir. 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>

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.

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, C, Modern C++,
<b>Operating Systems</b>	Linux (Ubuntu), Windows
<b>Databases</b>	MySQL, Microsoft SQL
<b>Source Control</b>	Git, GitHub
<b>Typesetting</b>	LaTeX

## RESEARCH INTERESTS

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- Machine Learning
- Pattern Classification
- Natural Language Processing

## LANGUAGES

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- English
- Persian