Contact INFORMATION Dept. of Computer Eng. & IT, Amirkabir University of Technology, Hafez St., Tehran, Iran.

Home: https://alimorty.github.io Tel: (+98) 937 146-2838

Email: ali mortazavi@aut.ac.ir

2013 - 2017

2013

EDUCATION

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

B.Sc. Computer Software Engineering,

18.47 / 20 (3.78/4) [Ranked 3^{rd}] CGPA: Overall

Selected Course 19.33 / 20 (4/4)

Research Interests

- Statistical Machine Learning
- Optimization
- Sequential Prediction
- Mechanism Design in Game Theory

Research EXPERIENCE

Implementation and Evaluation of "Genetic" and "Simulated Annealing" Algorithms for Extended Travelling Salesman Problem, B.Sc. Thesis, [code]

Under the supervision of Dr. Razazi at Amirkabir University of Technology

In this project, we tested the performance of two different heuristic approaches to solve an NP-Complete Problem. This problem is an extended version of the Travelling Salesman Problem. Since our approach is heuristic, there is no guaranty to find a global optimum answer. Therefore, we needed some other exact approach for computing the global optimum. For this purpose, we reduced our problem to an Integer Linear Programming Instance. So in small graph samples, we could compare our results with the optimum solution and for the large graph samples, we just compared our two different methods with each other.

Honors and AWARDS

- Ranked 3rd (out of 100) in term of Cumulative GPA among students of computer engineering of 2013 Entrance
- Awarded as Outstanding Student in Amirkabir University of Technology 2015-2017
- Awarded direct admission to M.Sc. program in **Artificial Intelligence** at *Amirkabir* University of Technology as talented undergraduate student
- Ranked 19th in the Final Stage in National Scientific Olympiad of Computer Engineering
- Qualified in the Selection Exam of National Scientific Olympiad of Computer Engineering 2016

Qualified as 9th among the students in all the Universities in the Tehran Region

• Ranked 1st in Mathematics Team Selection Exam

• Ranked Top 0.8% In The Country-wide University Entrance Exam

2015

Academic Projects

Image Denoising and Segmentation Using Markov Random Field [code][report] Optimizing Energy Function using Simulated Annealing, Comparing different Color Spaces results.

Text Summarization [code][report]

Extracting important sentence as a summary using page rank algorithm and word2vec. Text Classification [code][report]

Using different metrics (mutual information, information gain, etc.) for extracting important words for document classification task.

Teaching Experience	• Probability and Statistics, Teaching Assistant Under Supervision of Prof. Amirhaeri (haeri@aut.ac.ir)		spring 2018
	• Special Class for Olympiad Preparation, Instructor spring 2017 and 2018 Intro. To Theory of Computation, Algorithm Design		
	• Algorithm Design, Teaching Assistant Under Supervision of Prof. Rahmati (zrahmati@aut.ac.ir)		spring 2017
	• Algorithm Design, Teaching Assistant Under Supervision of Prof. Mousavi (srm@aut.ac.ir)		spring 2016
Highlighted Courses	 Probability and Statistics Statistical Machine Learning Probabilistic Graphical Models Stochastic Processes Data Mining 	 20/20 • Data Structures 20/20 • Algorithm Design 17/20 • Advanced Topics in Alg 20/20 • Theory of Computation 19/20 • Artificial Intelligence 	,
	• Data Storage and Retrieval	20/20 • Artificial Intelligence	20/20
ATTENDED CONFERENCES AND SEMINARS	ES AND An introduction to Deep Learning and different research Areas.		August 2018 February 2018 systems. By Dr.
	• Workshop on Game Theory February 2017 An introduction by Dr. Salavati to Game Theory Concepts (Nash Equilibrium, Expected Pay off, Repeated Games, Auctions, etc.)		
Skills	• Theoretical Skills Mathematics, Probability and Statistics, Algorithms		
	• Technical Skills Python (NumPy, Scikit, NLTK), Java, C/C++		
TALKS	 A brief summary to The Th What is Natural Language Pro Can computers have emotion?	•	May 2018 May 2017 June 2016
Languages	 Persian: Native English: TOEFL: 99 (Reading: 23, Listening: 28, Speaking: 23, Writing: 25) GRE General: 317 (Quantitative: 167, Verbal: 150) 		riting: 25)
OTHER ACTIVITIES			2018
	Recently I have started to learn pize • Amirkabir Programming Lea I was member of problem setting to	ague Staff	2016
	• Basketball Member of Basketball team in Com	nputer Engineering Department.	2015