

Atieh Barati Nia (She/ Her)

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EDUCATION

Bachelor of Science in Computer Science

Sep 2017 - Apr 2022

Amirkabir University of Technology, Tehran, Iran

GPA:

17.89 out of 20 (WES: 3.80 out of 4)

Final Project:

Freight Transportation Analysis System in the Central Area of Tehran (19.3 out of 20)

Supervisor: Dr. Safabakhsh

Selected Courses Related to Artificial Intelligence:

Algorithm Design, Principles of Computational Intelligence, Principles & Applications of Artificial Intelligence, Data Mining, Information Retrieval, Introduction to Bioinformatics, Signal & Systems

High School Diploma in Mathematics & Physics

Sep 2013 - June 2017

National Organization for Development of Exceptional Talents - Farzanegan 7, Tehran, Iran

GPA: 19.30 out of 20 (WES: 4 out of 4)

RESEARCH INTERESTS

Machine Learning, Data Science, Data Analysis, Algorithms

PUBLICATIONS

Bourbour, S., Khanali, K., **Barati Nia, A. (Corresponding Author)**, Najafi, A., & Motahari, SA. (2022). Modeling a Functional Form of Fundamental Diagram by Automated License Plate Readers Data: A Case Study in Tehran, Iran. *Journal of Transportation Engineering, Part A: Systems*, 149(1), 05022006.

WORK EXPERIENCE

Data Analyst

June 2020 - Jan 2022

Tehran Center for Urban Statistics and Observatory, Tehran, Iran

- Did some data analysis and created a report out of it
- Implemented a database of particular urban locations
- Implemented some Python programs
- Built multiple dashboards with QlikView

Android Developer - Intern

Dec 2019 - May 2020

RNS Assistant Company, Tehran, Iran

- Designed and developed some UI/UX features for a symptom checker Android application using Java

SKILLS

Programming Languages: Python3, Java, Golang, C, and R

BI software: QlikView

Mobile App Development: Android (Java)

Database Systems: Microsoft SQL Server, MySQL, PostgreSQL, and MongoDB

Web Development: HTML, CSS, JavaScript

Tools: Git

Operating Systems: Windows, Linux

LANGUAGES & EXAMS

English: TOEFL iBT: 103 (R28, L28, S24, W23)

GRE General: 321 (Q: 168, V: 153, AW: 3.5)

Persian: Native Speaker

July 2022

Sep 2022

CERTIFICATIONS

Ask Questions to Make Data-Driven Decisions

Oct 2023

Calculus for Machine Learning and Data Science

Sep 2023

Linear Algebra for Machine Learning and Data Science

July 2023

Foundations: Data, Data, Everywhere

Jun 2023

Data Visualization using Bokeh

May 2023

TEACHING EXPERIENCES

Teaching Assistant

Spring 2021

Amirkabir University of Technology, Department of Computer Science

Course Title: Algorithm Design (Dr. Bagheri)

- Helped with the examination of homework
- Gave oral exams

Teaching Assistant

Spring 2020

Amirkabir University of Technology, Department of Computer Science

Course Title: Algorithm Design (Dr. Bourbour)

- Responsible for the examination of projects

Teaching Assistant

Fall 2019

Amirkabir University of Technology, Department of Computer Science

Course Title: Electrical and Electronic Circuits (Dr. Momtazpour)

- Helped with the examination of homework and quizzes

ACHIEVEMENTS

Ranked 593 rd Place Among All Applicants in the Nationwide University Entrance Exam in Mathematics and Physics fields for B.Sc. Degree (nearly 150,000 applicants)	Summer 2017
Second Place in Debate Challenging Teams at Amirkabir University of Technology	Spring 2018
Admitted in the First Stage of National Competition to Select National Informatics Olympiad Team for High School Student's Olympiad in Iran	Feb 2016
Admitted in the First Stage of National Competition to Select National Informatics Olympiad Team for High School Student's Olympiad in Iran	Feb 2015
Admitted in the Entrance Exam of the High School of National Organization for Development of Exceptional Talents	Summer 2013

OTHER ACHIEVEMENTS

First Place in Book Reading at the Province Level	April 2014
Third Place in Ping-pong with High School Team in the Regional Level	Nov 2015
Third Place in Ping-pong with High School Team in the Regional Level	Nov 2014

REFERENCES

Reza Safabakhsh, Professor

Department of Computer Science, Amirkabir University of Technology, Tehran, Iran
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Sara Bourbour, Assistant Professor

IT Engineering Department, School of Industrial and Systems Engineering, Tarbiat Modares University, Tehran, Iran
s.bourbour@modares.ac.ir

Mahmoud Momtazpour, Assistant Professor

Department of Computer Science, Amirkabir University of Technology, Tehran, Iran
momtazpour@aut.ac.ir

Alireza Bagheri, Associate Professor

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More references are available upon request.