

# Mohammadhossein Malekpour

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## RESEARCH INTEREST

Machine Learning, Deep Learning, NLP, Computer Vision, MLOps, Software Engineering, Big Data

## EDUCATION

<b>AmirKabir University of Technology (Tehran Polytechnic)</b> <i>Bachelor of Science in Computer Science</i>	2017 – 2022 <i>Last Two-Year GPA: 3.67/4</i>
<b>AmirKabir University of Technology (Tehran Polytechnic)</b> <i>Minor in Economics</i>	2021 – 2022 <i>Overall GPA: 4/4</i>

## PUBLICATIONS

<b>Optimizing concrete footings mixture with machine learning.</b> <i>Submitted at Journal of Materials in Civil Engineering (Under Review)</i>	Sep 2022 <i>Second Author</i>
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## TEACHING EXPERIENCE

<b>Teaching Assistant</b> <i>AmirKabir University of Technology</i>	Feb 2020 – Jan 2022 <i>Tehran, Iran</i>
<ul style="list-style-type: none"><li>Machine Learning (MSc course) – Dr. Mohammad Akbari</li><li>Applied Data Science (MSc course at <a href="#">TeIAS</a>) – Dr. Amir Hesam Salavati</li><li>Fundamentals of Programming in C – Dr. Mohammad Akbari</li><li>Principle of Software Design – Dr. Amin Gheibi</li><li>Advanced Programming in Python – Dr. Morteza Kouhsar</li><li>Advanced Programming in Python – Dr. Javad Mohammadzadeh</li><li>Principle of Software Design – Dr. Javad Mohammadzadeh</li></ul>	
<b>Head Teaching Assistant</b> <i>CS50x Iran</i>	Aug 2020 – Apr 2022 <i>Tehran, Iran</i>
<ul style="list-style-type: none"><li>We taught CS50x in Iran, a Harvard course about introduction to computer science and the art of programming. I translated and customized CS50's original contents and taught the web track in CS50x 2020. Also, I held all TA sessions in CS50x 2021 and was the head teaching assistant of the CS50 web 2022 course.</li></ul>	

## PROFESSIONAL EXPERIENCE

<b>Data Analyst</b> <i>Divar</i>	June 2022 – Present <i>Tehran, Iran</i>
<ul style="list-style-type: none"><li>Divar is a classified ads and e-commerce online platform for users in Iran with 30 million monthly active users.</li><li>Perform analysis on a wide variety of big data and process improvement opportunities; uncover trends, create and distribute various metrics, reports, dashboards, and building predictive models.</li></ul>	
<b>Data Science Intern</b> <i>Hesaba</i>	Sep 2020 – Nov 2020 <i>Tehran, Iran</i>
<ul style="list-style-type: none"><li>The internship focused on principles of data science using R programming language and Tidyverse packages.</li></ul>	
<b>Python Developer Intern</b> <i>Segmentino</i>	Jun 2020 – Mar 2020 <i>Tehran, Iran</i>
<ul style="list-style-type: none"><li>Segmentino is a marketing automation platform.</li><li>Contributed to journey-designer product and developed some Python packages.</li><li>I experienced working with Apache-Airflow, Docker, and modular programming in Python.</li></ul>	
<b>Software Engineer Intern</b> <i>Segmentino</i>	Jul 2019 – Sep 2019 <i>Tehran, Iran</i>
<ul style="list-style-type: none"><li>I worked at the Iranian national observatory project's TDD (Technical Development Division).</li><li>I experienced working with pure Python, MySQL, and Flask for the weather-station project.</li></ul>	

## TECHNICAL SKILLS

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**Languages:** Python, R, SQL, C/C++, Bash  
**Frameworks:** PyTorch, Spark MLlib, Flask, FastAPI  
**Developer Tools:** Git, Bash, Docker, VSCode, PyCharm, Metabase  
**Libraries:** PySpark, Scikit-Learn, Pandas, NumPy, Seaborn, Plotly, Tidyverse

## CERTIFICATIONS

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**Deep Learning Specialization** by Coursera (Offered by DeepLearning.AI), [\*credential\*](#)  
**AWS Machine Learning Foundations** by Udacity, [\*credential\*](#)  
**Machine Learning** by Coursera (Offered by Stanford University), [\*credential\*](#)  
**Data Visualization** by Kaggle, [\*credential\*](#)  
**R Programming Track** by DataCamp, [\*credential\*](#)  
**Advanced Python Programming and OOP Thinking** by Quera College, [\*credential\*](#)  
**Participant in CS50 for Educators Workshop 2021** by Harvard University, [\*credential\*](#)  
**CS50: Introduction to Computer Science** by Harvard University, [\*credential\*](#)  
**Participant in RoboCup IranOpen 2013** by RoboCup Federation, [\*credential\*](#)

## SELECTED PROJECTS

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- AUT-Twitter-Analytics (GitHub)** | *Python, Scikit-Learn, Hazm, Streamlit, NLP Techniques* Jan 2021
- This project was an interactive dashboard based on user feedback on the product based on about 3.5 GB of Twitter data in Persian and English. I worked on EDA, building the dashboard, and integrating the models in production. Dashboard Features: Exploratory Data Analysis, Sentiment Analysis, and Topic Detection.
- Iran-Covid19 (GitHub)** | *R, Dplyr, Ggplot2* Nov 2020
- An R script, fetching daily covid19 data from Johns Hopkins University, presenting deaths, new cases, and recovered cases by plots in dashboard and time series.
- DailyDiet-API (GitHub)** | *Python, Flask, PostgreSQL, Heroku, Git* June 2020
- This project was a website that recommends daily meals or weekly diets based on users' health information and weight loss/gain goals. I participated in the back-end development with Flask and built the REST-API.

## HIGHLIGHTED COURSES

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- Advanced Programming in C++
- Data Structures & Algorithms
- Design & Analysis of Algorithms
- Principles of Operating Systems
- Database
- Data Mining
- Probability
- Foundation of Matrix and Linear Algebra
- Introduction to Blockchain
- NLP in Social Media
- Linear Optimization
- Artificial Intelligence
- Econometrics
- Game Theory

## LANGUAGES

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**Persian:** Native  
**English:** Upper-Intermediate (TOEFL-IBT test date: 27 Nov 2022)

## REFERENCES

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<b>Dr. Amin Gheibi</b> <a href="#"><i>google scholar profile</i></a>	<a href="mailto:amin.gheibi@aut.ac.ir">amin.gheibi@aut.ac.ir</a> <i>AmirKabir University of Technology</i>
<b>Dr. Mohammad Akbari</b> <a href="#"><i>google scholar profile</i></a>	<a href="mailto:akbari.ma@aut.ac.ir">akbari.ma@aut.ac.ir</a> <i>AmirKabir University of Technology</i>
<b>Dr. Morteza Kouhsar</b> <a href="#"><i>google scholar profile</i></a>	<a href="mailto:m.kouhsar@exeter.ac.uk">m.kouhsar@exeter.ac.uk</a> <i>University of Exeter</i>
<b>Dr. Amir Hesam Salavati</b> <a href="#"><i>google scholar profile</i></a>	<a href="mailto:salavati@sanags.ir">salavati@sanags.ir</a> <i>Swiss Federal Institute of Technology in Lausanne</i>