

# SAJAD EBRAHIMI

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## RESEARCH INTERESTS

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- Natural Language Processing
- Information Retrieval
- Data Mining
- Machine Learning / Deep Learning

## EDUCATION

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### B.Sc. in Computer Engineering

Mashhad, Iran | 2018 - Present

FERDOWSI UNIVERSITY OF MASHHAD

- **Overall GPA:** 3.22/4 (16.05/20)
- **Selected courses:** Fundamentals of Data Mining(A), Fundamentals of Information Retrieval(A), Database(A)

## RESEARCH EXPERIENCE

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### Research Assistant | TORONTO METROPOLITAN UNIVERSITY

Toronto, CA | Sept 2022 - Present

Under the supervision of Professor Ebrahim Bagheri @ LS3

- Worked on improving the result of dense retriever for obstinate queries of the MS-MARCO dataset utilizing Entity Linking and Knowledge Graphs.

### Research Assistant | FERDOWSI UNIVERSITY OF MASHHAD

Mashhad, Iran | July 2021 - Sept 2022

Under the supervision of Professor Behshid Behkamal

- Designed effective data model; Developed a scraper that stores course data from universities course catalogue.
- Utilized state-of-the-art models to summarize and extract keywords of each course description

## TEACHING EXPERIENCE

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### Teacher Assistant | FERDOWSI UNIVERSITY OF MASHHAD

Mashhad, Iran | Sept 2019 - Present

- **Fundamentals of Information Retrieval**, Dr. M. Kahani, Fall 2022
- **Fundamentals of Data Mining**, Dr. B. Behkamal, Spring 2022
- **Database**, N. Armin (Fall 2021) - Dr. M. Kahani (Spring 2022)
- Computer Architecture, M. Mazroui (Fall 2020), Dr. S. ErshadiNasab (Spring 2021)
- Discrete Mathematics, Dr. M. Mirzavaziri, Spring 2020
- Advanced Programming, Dr. R. Ramezani, Spring 2020
- Fundamentals of Computer Programming, Dr. R. Ramezani, Fall 2019

### Middle School Instructor | ANDISHE IRANIAN SCHOOL

Mashhad, Iran | Sept 2020 – Jan 2021

Taught fundamentals of computer programming to students aged 13 to 16.

## SKILLS

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**Proficient in:** various ML Algorithms, Neural Networks, Transformers Architecture, Knowledge Graphs

**Python:**

- Pandas, NumPy, Matplotlib, Seaborn, SKlearn, transformers, Tensorflow, PyTorch, NLTK, spaCy
- Django, Django Rest Framework, Flask, Fastapi
- Selenium, Pytest, Doctest, BeautifulSoup4
- python-telegram-bot, Tweepy

**Databases:** PostgreSQL, MongoDB, SQLite

**Other:** Git, Docker, Elasticsearch, Nginx, GraphQL, HTML/CSS, Microsoft Power BI, Google Data Studio, LaTeX, Unix-based OS, Agile methodology, C

## PUBLICATIONS

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### Course Dataset Generation from Universities Course Catalogue

In Preparation | 2023

S. EBRAHIMI, M. ABOLFAZLI, B. BEHKAMAL

## WORK EXPERIENCE

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### Data Analyst | KAVA TAHLIL

Tehran, Iran - part time | Sept 2021 – Aug 2022

- Developed a script for crawling various data source of Tehran Stock Exchange and storing it in MongoDB.
- Design data models for different types of stocks and organize data into usable formats.
- Identify, analyze, and interpret trends and patterns in complex data sources.

### Python Developer | FREELANCE

Mashhad, Iran | March 2021 - April 2022

- Developed Bahar Charity website back-end utilized Django Rest Framework. Beneficiaries can pay appointments bill and administrators can get various reports on invoices and appointments.
- Developed Somchin mobile app utilized Django Rest Framework. Injuries to cattle can be logged and a report can be generated during each treatment step. The admin panel provides access to all reports and users' activity.
- Developed a script to synchronize the databases of different hypermarkets to track the inventory of each good in an integrated platform.

### Web Developer Intern | ILIASYSTEM CO.

Mashhad, Iran | Aug 2019 – Feb 2020

- Learned HTML/CSS and web concepts.

## VOLUNTEER EXPERIENCE

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### Reviewer, Executive chair | 3-MINUTES PRESENTATION COMPETITION

Mashhad, Iran | Oct 2021

### Senior Executive Member, Public Relation Manager | INTERNATIONAL CONFERENCE ON COMPUTER AND KNOWLEDGE ENGINEERING (ICCKE)

Mashhad, Iran | Sept 2021 – Oct 2021

### Senior Member, Public Relation Manager | SCIENTIFIC SOCIETY OF COMPUTER ENGINEERING STUDENTS OF FERDOWSI UNIVERSITY OF MASHHAD

Mashhad, Iran | May 2019 - Sept 2022

### Senior Member | LINUX USERS' GROUP OF FERDOWSI UNIVERSITY OF MASHHAD

Mashhad, Iran | 2022

### Executive Member | NATIONAL CONFERENCE ON ADVANCES IN ENTERPRISE ARCHITECTURE (NCAEA)

Mashhad, Iran | Dec 2021

## PROJECTS

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### Dataset preprocessing, Frequent pattern discovery and Clustering on Digikala dataset

PANDAS, MLXTEND, SKLEARN | SPRING 2021

My project for the Data Mining course at Ferdowsi University of Mashhad.

### Twitter sentiment Analysis

SKLEARN, TWEETPY, TEXTBLOB | SUMMER 2022

Trained a model with 80% accuracy by sample labeled tweets to apply sentiment analysis on recently received tweets. Used Twitter API to get new tweets.

### Identifying an IMDB Movie's Genre From its Overview

SKLEARN, TRANSFORMERS | SPRING 2022

### QR code ticket system

FASTAPI | SPRING 2022

This service generates a unique QR code for each registered user and provides a QR reader for the receptionist to verify each ticket powered by Fastapi.

### Wordle Vaajoor helper

PYTHON-TELEGRAM-BOT, FASTAPI | SPRING 2022

This script helps you to solve Wordle and Vaajoor game. Accessible via command line or API or [telegram bot](#).

### Credit Card Sticker Bot

PYTHON-TELEGRAM-BOT | SPRING 2022

This telegram-bot create sticker set from your credit cards number. It is accessible via [telegram bot](#).

## AWARDS AND ACKNOWLEDGEMENTS

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- Ranked 10 among over 80 teams in the 6th AmirKabir university programming league (2019)
- Ranked amongst the top 2% of 144,000 participants in the Nationwide Entrance exam (Konkur) of Iranian universities (2018)

## LANGUAGES

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- **English:** Fluent
- **Persian:** Native

## REFERENCES

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### **Dr. Behshid Behkamal**

- Assistant Professor, Department of Computer Engineering, Ferdowsi University of Mashhad
- [behkamal@um.ac.ir](mailto:behkamal@um.ac.ir)
- <http://prof.um.ac.ir/behkamal/>

### **Dr. Mohsen Kahani**

- Professor, Department of Computer Engineering, Ferdowsi University of Mashhad
- [kahani@um.ac.ir](mailto:kahani@um.ac.ir)
- <http://prof.um.ac.ir/kahani/>

### **Dr. Sara Ershadi nasab**

- Assistant Professor, Department of Computer Engineering, Ferdowsi University of Mashhad
- [ershadinasab@um.ac.ir](mailto:ershadinasab@um.ac.ir)
- <http://prof.um.ac.ir/ershadinasab/>