# ZAHRA SAFDARI

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## EDUCATION

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| Pursuing a Bachelor of Science in Computer Science | **2020 - present** |

University of Tabriz, Tabriz, Iran
GPA: 3.81/4, Ranked 4th

## RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing
- Human Computer Interaction
- Data Mining

## RESEARCH EXPERIENCE

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| Research Assistant, Text Classification with Contrastive Learning | **May 2023 - present** |

*Supervisor:Dr.Habib Izadkhah, University of Tabriz*

•Data Augmentation and Retraining Transformer-based Model(BERT) using Contrastive Learning.

## TEACHING EXPERIENCE

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| Teaching Assistant, Advanced Programming, *Dr.Behzad Pourmahmood* | **Fall 2023** |
| Teaching Assistant, Data Structures, *Dr.Rashid Behzadidoost* | **Fall 2023** |
| Teaching Assistant, Python Programming, *IPM institute* | **June 2023 - present** |
| Lecturer, *CS TALK, University of Tabriz* | **2022 - present** |
| Teaching Assistant, Technical Language, *Dr.Jaber Karimpour* | **Winter 2023** |
| Course Tutor, Python Programming Workshop, *Dr.Jaber Karimpour* | **Winter 2023** |
| Data Structures *Meshkat Holdings, Education Departmet* | **Jun 2020 - Aug 2022** |
| Teaching Assistant, Advanced programming, *Dr.Jaber Karimpour* | **Winter 2020** |
| Instructor, English, *Success Language Center, Iran* | **Jun 2018 - Oct 2019** |

## HONORS AND AWARDS

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| Selected as a distinguished student in my university (ranked 4th) | **Jun 2023** |
| Top-3% in Iran's National University Entrance Exam(over 155,000 Participants) | **Jul 2020** |
| Ranked 1st among 140 students in IPM Entrance Exam for AI school | **Jun 2023** |

## WORK EXPERIENCE

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| Web Developer | **Jun 2021 - Nov 2022** |

*Meshkat Holdings– Programming Department*

Developed websites using self-taught Django skills and led the team members.

## SELECTED COURSES

- Advanced Programming: 4/4
- Design Principles: 4/4
- Analysis and Design of Algorithms: 4/4
- Foundations of Mathematics Science: 4/4
- Programming Challenges: 4/4
- Data Structures: 4/4
- Database: 4/4
- Probability1: 4/4

## SKILLS

- **Programming:**
  Python, C, C++, SQL, HTML/CSS
- **Frameworks:**
  Pytorch, Tensorflow, Scikit-learn, Keras, Numpy, Pandas, Matplotlip, Django
- **Tools:**
  Git, MySQL, LaTex
- **Methodologies:**
  Agile, Scrum
- **Languages:**
  English, Persian, Turkish, German, Azerbaijani
- **Softwares:**
  Anaconda, Colab, VS code, PopSQL, Postman, Visual Paradigm, Multisim.

## TRAININGS AND WORKSHOPS ATTENDED

**Summer School in Artificial Intelligence**                 Jul 7th 2023 -present
*IPM Institute For Research In Fundamental Sciences*

**Machine Learning Specialization (3 Courses) Certification**     May 2023 - Jul 2023
*Stanford University and Deeplearning.ai*

**Retrieving, Processing, and Visualizing Data with Python Certification**     Aug 2023
*University of Michigan*

**Natural Language Processing with Classification and Vector Spaces**     Aug 2023
*Deeplearning.ai*

## PROJECTS

**Hate Speech Detection using Transformers(Under Preparation)**     May 2023 - present
Currently working on Hate Speech Detection using Transformers, aiming for impressive accuracy across 7 languages.

**Labs 109! Efficient Python Problem Implementations**     Jan 2023 - Jun 2023
Addressed multiple problems by considering their complexity and limited execution time.

**Online Restaurant System's Design Principles**     Jan 2023 - Jun 2023
Designed principles such as creating class diagrams, use cases, and sequence diagrams.

**Assessment of a robot's position in a three-dimensional space.**     Oct 2022 - Dec 2022
Impelemented Using methods such as the lexical analyzer and the syntax analyzer in Python.

**Life Expectancy Prediction Project**     Oct 2022
A model to predict life expectancy using Linear Regression.

**An e-commerce website created for selling various products**     Jul 2022 - Sep 2022
Independently built an e-commerce website, integrating Django and Python.

**Online Examination Website for Educational Institutions**     Jan 2021 - July 2021
*Freelance Project*
Built with Django and includes various features.

**A database for language schools**     Jan 2022 - Jun 2019
Utilized SQL Server to organize data about teachers, students, and courses.

**A Portfolio Design Website for Users**     Jan 2021 - Jun 2021
Created Models of a Portfolio Website for Users with ORM.