

Sepideh Tajik

CONTACT INFORMATION

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EDUCATION

M.Sc. in Information Technology

Sep 2021 – Present

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

Top Grades:

- | | | | |
|----------------------|----------|----------------------------|----------|
| ▪ Advanced data base | 19/20 | ▪ Data analytics | 17.5/20 |
| ▪ Data mining | 18.75/20 | ▪ Digital image processing | 17.25/20 |

B.Sc. in Computer Engineering

Sep 2017 – July 2021

Khajeh Nasir University of Technology, Tehran, Iran

Overall GPA: 17.41/20 (87.05/100)

Final project:

Implementing an E-learning PWA with interactive approach

Grade achieved: 17.25/20

Top grades:

- | | | | |
|-----------------------------|----------|----------------------------------|----------|
| ▪ Artificial Intelligence | 18/20 | ▪ Software Test | 17.5/20 |
| ▪ Computer Graphics | 17.5/20 | ▪ Design Principles of Date Base | 17.5/20 |
| ▪ Computer Simulation | 17.5/20 | ▪ Operating Systems | 17.5/20 |
| ▪ Basics of Cloud Computing | 17.75/20 | ▪ Web Programming | 17.25/20 |

RESEARCH INTERESTS

- | | |
|--|-------------------------------|
| ▪ Data science and applications | ▪ Business analytics |
| ▪ Image processing and computer vision | ▪ Natural language processing |
| ▪ Machine learning and deep learning | |

PUBLICATIONS

Sepideh Tajik, Alireza Rezvanian, (Under Preparation). "An Improved Cellular Edge Detection Technique Integrating Cellular Learning Automata And Conventional Methods."

ACADEMIC PROJECTS

Network intrusion detection

Feb. 2022 – May 2022

Implemented a network intrusion detection project using deep neural networks in Tensorflow environment and manipulated the parameters to optimize the results

Course: Data Analysis And Extraction

Wind turbine damage detection

Feb. 2022 – May 2022

Implemented an AI model to detect damages on the surface of wind turbines using YOLO v4 model

Course: Data Analysis And Extraction

Nudity detection project

March 2022 – May 2022

Implemented a simplified NSFW detection model using OpenCV

Course: Digital Image Processing

AES algorithm implementation

Oct. 2021 – Dec. 2021

Learned to work with Xilinx ISE and implemented the AES algorithm using this application

Fraud detection with graph analytics

Sep. 2020 – Nov. 2020

Implemented a fraud detection algorithm using NETWORKX and graphx libraries in Spark environment

Course: Big Data

Fake news detection

March 2020 – May 2020

Studied the BERT model and implemented a simple fake news detector using BERT Model

Course: Artificial Intelligence

Banking system database

Nov. 2019 – Dec 2019

Designed a database model for a banking system using Microsoft Visio and implemented it in SQL

Course: Design Principles of Date Base

Pac-man game

Nov. 2017 – Dec 2017

Implemented a simplified version of the Pac-man game using Java language

Course: Advanced programming

WORK EXPERIENCE

Internship, [Nasirbp](#)

Feb. 2021 – May 2021

Worked on advancing medical image analysis

TEACHING EXPERIENCE

Teaching Assistant, Islamic Azad University South Tehran Branch

2nd semester of 2020 – 2021

Course: Artificial Intelligence

Graded students' assignments, and prepared booklets and assignments weekly

Teaching Assistant, Islamic Azad University South Tehran Branch

1st semester of 2020 – 2021

Course: Artificial Intelligence

Graded students' assignments, and prepared booklets and assignments weekly

English Instructor, Mokalemeh English Language Institute

Dec. 2020 – Jan. 2021

Taught the Top Notch books

LANGUAGES

English

IELTS

August 2023

Overall: 7

Reading: 7 | Listening: 7.5 | Speaking: 7 | Writing: 7

French

Intermediate Level

SKILLS

▪ Python	<div><div></div></div>
▪ OpenCV	<div><div></div></div>
▪ Tensorflow	<div><div></div></div>
▪ SQL	<div><div></div></div>
Web Development	
▪ Javascript	<div><div></div></div>
▪ HTML/CSS	<div><div></div></div>
▪ VueJS	<div><div></div></div>

REFERENCES

- **Dr. Saeed Sharifian Khortoomi**
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- **Dr. Amir Khorsandi**
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