

# ERFAN KHAYYATI

COMPUTER SCIENCE STUDENT

Urmia, Iran

erfankhayyati79@gmail.com | GitHub | +989214728316 | LinkedIn

## Education

### Bachelor of Computer Science

Sep 2019- Sep 2023

Azarbaijan Shahid Madani University, Tabriz, Iran

- **GPA: 16.93/20 (Last 4 Semesters' GPA: 18.48/20)**
- **B.Sc. Project: "Gun classification**, Binary Image Classification of guns using CNN and pre-trained networks"
- **Related Courses:** B.Sc. Project: **(20/20)**, Database: **(20/20)**, Principle of Operating system: **(20/20)**, Data structure: **(20/20)**, Algorithm design: **(20/20)**

## Languages

- **English (Fluent): Academic IELTS: Overall: 7** (Listening: 8, Reading: 7, Writing: 6, Speaking: 6.5)
- Persian (Native), Turkish (Mother tongue)

## Research Interests

- Machine Learning
- Artificial Intelligence
- Natural Language Processing
- Image Processing
- Computer Vision
- Computer Graphics

## Skills

- Programming Languages: Proficient with **Python** and familiar with C++.
- Data Science libraries such as **TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, and OpenCV**.
- Database Language: familiar with SQL.
- **Microsoft Office Suite: Excel, Word, PowerPoint.**
- Proven **interpersonal skills**, with the ability to work efficiently as a team player and independently.
- Passionate about challenging **problem-solving** and capable of **working under pressure** with tight deadlines.

## Achievements

- **Bachelor Scholarship:** Awarded a **4-year full scholarship** from Azarbaijan Shahid Madani University.
- **#1 Ranked** among Undergraduate Computer Science students.
- Member of most talented university students due to high GPA.

## Academic Projects

### Artificial Intelligence

- **Binary Image Classification with Neural Networks**  
Dogs-and-Cats Classification by Applying a multi-layer neural network using TensorFlow in conjunction with analyzing and tuning various hyper-parameters.
- **Multi-Class Image Classification with Neural Networks**  
MNIST Hand-Written Numbers using CNN.
- **Computer Vision**  
Webcam image classification using Mobilenetv2 and OpenCV.
- **Text Processing**  
Movie Reviews Classification using IMDB dataset and SimpleRNN and Glove Embedding.

### Deep Learning Specialization Course's Projects.

- All Assignments of the course.

## Bachelor's Courses:

- **Principle Of Operating System**  
A multithreading program for running two simple tasks of OS simultaneously using Python.
- **Computer Graphics**  
Intersecting two Triangles and illustrating their intersections using C++ and OpenGL library.
- **Data Structure**  
Implementing Linked List Data Structure using C++.  
Implementing Hanoi Tower Data Structure using C++.
- **Computer simulation**  
Filling A Matrix with Numbers Randomly using Python.  
Generating Random Sequences with Genetic Algorithm using Python.
- **Database**  
Hotel Database Design using SQL.

## Academic Experiences

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### Research Assistant

Oct 2022- Dec 2022

Azarbaijan Shahid Madani University, Under Supervision of Dr. Naser Farajzadeh

- Comprehending the concepts of the project.
- Working on gathering data using web scrapers or using available datasets to make a dataset of images including guns.
- Employing various pretrained networks and tuning hyper-parameters.

### Teaching Assistant

July 2022- Sep 2023

Azarbaijan Shahid Madani University

- Introduction to deep learning (**Grading projects** and calculating grades for 30 students)
- Operating system (**Providing feedback on assignments** for 30 students)
- Advanced programming (**Grading assignments** of above 40 students)
- Fundamentals of computer programming (**Grading assignments** for above 40 students)

## Conferences

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- **The future of artificial intelligence** by Azarbaijan Shahid Madani University
- **Artificial Neural Networks** by Sharif University of Technology (Online)

## Certificates

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### Coursera:

- **Machine Learning** by Stanford University
- **Deep Learning Specialization** by DeepLearning.ai

### Udemy:

- Python for **Data Science and Machine Learning** Bootcamp

## References

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**Dr. Amin Golzari Oskouei:** Assistant Professor, Azarbaijan Shahid Madani University  
Academic email: a.golzari@azaruniv.ac.ir

**Dr. Naser Farajzadeh:** Associate Professor, Azarbaijan Shahid Madani University  
Academic email: nacer\_farajzadeh@yahoo.com