

Erfan Nasiri | Curriculum Vitae

University of Tehran - Department of Electrical and Computer Engineering

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EDUCATION

● Bachelor of Science

September, 2019-Present



University of Tehran

Tehran-Iran

- Electrical and Computer Engineering
 - Major: Software Engineering
 - GPA: 3.2/4 (140 credits)
 - Last two years: 3.65
 - Last year: 3.68

RESEARCH INTERESTS

- Machine Learning
- Computer Vision
- NLP
- AI in Medical Diagnosis

HONORS & AWARDS

- Top 5% in Iran's nationwide university entrance exam, among more than 155,000 participants. [Summer 2020]
- Awarded a fully funded 4-year Bachelor of Science degree in Computer Engineering. [Fall 2020]
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SELECTED COURSES

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| ● Artificial Intelligence [Fall 2022] <ul style="list-style-type: none">- Instructor: Dr. Hedieh Sajedi- Grade: A+ | ● Database Design [Spring 2023] <ul style="list-style-type: none">- Instructor: Dr. Ali NaghashAsadi- Grade: A+ |
| ● Operating Systems [Fall 2022] <ul style="list-style-type: none">- Instructor: Dr. Maliheh Ghomsheh- Grade: A+ | ● Systems Analysis and Design [Spring 2023] <ul style="list-style-type: none">- Instructor: Dr. Ali NaghashAsadi- Grade: A |

SKILLS

Programming Languages

- Python
- JavaScript
- C/C++
- Rust
- Verilog HDL
- MySQL
- L^AT_EX




Frameworks

- TensorFlow
- Keras
- NLTK
- SKlearn
- Pandas
- SpaCy
- FastAPI

Softwares/Platforms/Tools

- | | |
|-----------------------|--------------------|
| ● Docker + Kubernetes | ● MS Word |
| ● Proteus | ● MS Visual Studio |
| ● Arduino | ● Git |
| ● MS Visio | ● GitHub |
| ● MS Excel | ● Linux |

TEACHING EXPRIENCE

- Teaching Assistant
 -  Physics II Winter 2023
 - Instructor: Dr. Zahra Nasrollahi (Tehran University)
 - Actively participated in curriculum planning and lesson delivery, working closely with faculty members.
 - 80+ students
 -  Differential equations (ODE) Winter 2023
 - Instructor: Dr. Fatemeh Esmaeili Khalil Saraei (Tehran University)
 - Provided one-on-one tutoring and academic support to students, resulting in increased engagement and grades.
 - 30+ students
 -  Engineering Mathematics (Advanced) Fall 2023
 - Instructor: Dr. Fatemeh Esmaeili Khalil Saraei (Tehran University)
 - Collaborated with a fellow TA to Design assignments, and instruct course material.
 - 40+ students

PROJECTS

- - Creating a high-quality software requirement specification document for the system.
 - Creating ER diagram for the system database.
 - Specifying, visualizing, and documenting the system using UML diagrams.
 - Supervisor: Dr. Ali NaghashAsadi (Tehran University)
- Planning, Analysis, and Design of an Online Auction System
 - Creating a high-quality software requirement specification document for the system.
 - Creating ER diagram for the system database.
 - Specifying, visualizing, and documenting the system using UML diagrams.
 - Supervisor: Dr. Ali NaghashAsadi (Tehran University)
- Project Title: Solving Maze Problem Using Reinforcement Learning
 - Problem environment included flags and walls.
 - The agent had to cross all flags and find the shortest path without hitting a wall.
 - Applying reinforcement learning techniques for the required tasks.
 - Supervisor: Dr. Hedieh Sajedi (Tehran University)
- Handwritten Digit Recognition using Neural Networks
 - The MNIST dataset has been utilized
 - No use of Keras and TensorFlow
 - Above 85 percent accuracy
- Old Black and White Image Colorization Using Convolutional Neural Networks
 - Converting images from RGB format to LAB.
 - Extracting L channels and AB channels of images and training the network.
 - This dataset has been utilized. (taken from the MIRFLICKR25k dataset)

❗ References, Further information, and Proofs are available upon Request