

# ERFAN NASIRI

Machine Learning Engineer

 (+98) 930 046 0503

 erfan.nassirri@gmail.com

 Gilan, Iran

 [Erfanium](#)

 [Erfannnasiri](#)

 <https://erfanium-79.github.io>

## EDUCATION

Tehran University  
Tehran, Iran  
2020 - 2024

### B.Sc. of Computer Engineering

- GPA: 3.35/4
- Project: Ovarian Cancer Detection Using AI and CNN
- Supervisor: [Fateme Esmaeili](#)

## RESEARCH INTERESTS

- Natural Language Processing
- Large Language Models
- Computational Linguistics
- AI in Medical Diagnosis

## HONORS AND AWARDS

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

## SKILLS

- **Programming:** Python, C, C++, VHDL, MySQL, LaTeX,
- **Frameworks:** Tensorflow, Keras, NLTK, Transformers, FastAPI
- **Cloud:** Google Cloud, AWS (SageMaker)
- **Softwares/Tools:** Visual Studio, MS Word, MS Excel, Git, Github, Linux,

## WORK EXPERIENCE

ChashmYar  
2024 - Present

### Machine Learning Engineer

Completed various tasks including but not limited to:

- Caption generation describing the infection based on eye images
- Eye disease type prediction and classification
- Fine-tuning previously existing models to run faster and improve accuracy

## PUBLICATIONS

- [Azadeh Ebrahimian, Erfan Nasiri, et al. Anchorage of ZnO quantum dots and CuO on graphene for sonophotocatalytic treatment of pharmaceutical effluent: From experimental data and prediction by advanced machine learning algorithms. Journal of Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2025.](#)

---

## PROJECTS

### **Predicting Water Pollutant Removal Efficiency with Machine Learning Techniques**

- Developed and evaluated machine learning models to predict the percentage of pollutant removal achievable by a given water treatment technology
- Analyzed a comprehensive dataset of water pollutant remover characteristics and removal performances, extracting key features and engineering additional informative variables
- This project was part of a chemical engineering student's masters thesis.
- Supervisors: Dr. Azadeh Ebrahimian Pirbazar, Dr. Fatemeh Esmaeili K. S. (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

### **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

---

## SELECTED COURSES

- Artificial Intelligence (Grade: A+ )
- Data Base Design (Grade: A+ )
- Operating Systems (Grade: A+)
- Systems Analysis and Design (Grade: A)

---

## CERTIFICATES

- [Generative AI with Large Language Models](#)

### **NLP Specialization (Coursera):**

- [Natural Language Processing with Classification and Vector Spaces](#)
- [Natural Language Processing with Probabilistic Models](#)
- [Natural Language Processing with Sequence Models](#)
- [Natural Language Processing with Attention Models](#)

## LANGUAGE SKILLS

- Persian: Native
  - English: Bilingual proficiency, advanced (IELTS score to be taken soon)
- 

## TEACHING EXPERIENCE

- Physics II
  - Differential equations (ODE)
  - Engineering Mathematics (Advanced)
- 

## REFERENCES

**Fateme Esmaeili**

- Supervisor
- denilson@ualberta.ca

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