




# Zahra Sahranavard

AI Developer | Data Scientist

## Contact

 (+98) 903 771 4302

 [zahrasahranavard.ir](http://zahrasahranavard.ir)

 [zahra.sahranavard7622@iaui.ir](mailto:zahra.sahranavard7622@iaui.ir)

 Iran, Fars Province, Shiraz

## About Me

AI Developer and Data Scientist with hands-on experience in **Machine Learning**, **Deep Learning**, and **Computer Vision**. Proficient in Python and modern AI frameworks, with a strong track record in developing practical projects and conducting research.

Experienced in working with medical, industrial, and domain-specific datasets, effectively combining technical expertise with real-world problem-solving.

## Technical Profile



[ZahraSahranavard](https://github.com/ZahraSahranavard)

## Education

### Bachelor of Computer Engineering

2023 - Present

Islamic Azad University

Fars Province, Shiraz

Orientation: Software

Current GPA: A (Honors Student)

Activities and: Researcher, Editor-in-Chief at Bit and Byte Magazine

## Experiences

### Robotics and AI Developer (Internship)

July 2024 - Oct 2024

Fars Science and Technology Park

Hoosh Sazan Parsia Company

Fars Province, Shiraz

#### Tasks / Achievements

- Quadcopter (flying robot) development using Arduino programming language
- Using the pre-trained YOLOv8 model in developing an advanced object recognition system
- Receive and process images in real-time
- ▶ Result: This project gave me a unique opportunity to strengthen my technical skills in the fields of programming, electronics, and computer vision, and gain valuable practical experience in developing intelligent systems.

### Conference Reviewer

July 2025 - Present

7th National Conference on Novel Achievements in Electrical, Computer and Industrial Engineering

Razavi Khorasan, Esfarayen

## Courses and Certifications

### The Machine Learning Process A-Z

Nov 2024

365 Data Science

Link: <https://learn.365datascience.com/c/80e82e21bd/>

### Deep Learning with TensorFlow

Nov 2024

365 Data Science

Link: <https://learn.365datascience.com/c/474b610d19/>

### Intro to AI

Nov 2024

365 Data Science

Link: <https://learn.365datascience.com/c/020bfa8712/>

### Intro to NLP for AI

Nov 2024

365 Data Science

Link: <https://learn.365datascience.com/c/25d2c27bf8/>

### Data or Specimens Only Research

Sep 2025

CITI Program

Link: <https://www.citiprogram.org/verify/?w124b5423-fff2-46da-b93b-b3fbc555c73-72059000>

### Intro to Python

Aug 2019

Navid (Dibagaran)

## Skills and Tools

- Python
- Jupyter Notebook
- Scikit-learn
- XGBoost
- TensorFlow
- Keras
- OpenCV
- NumPy
- Pandas
- Matplotlib
- Seaborn
- Django
- Html / Css
- JavaScript
- C++
- Arduino
- WordPress
- Photoshop / Illustrator / InDesign

## Social Media

 [zahra-sahranavard](#)

 [ZSN50](#)

## Languages

- Persian Native
- English Intermediate

## Soft Skills

- Teamwork spirit
- Fast learning
- Explorer
- Time management
- Problem-solving ability

## Projects

- **Heart Disease Prediction** Sep 2025

A comprehensive Data Science project focused on predicting heart disease in patients using medical, lifestyle, and demographic data. Implemented end-to-end workflows including data preprocessing, handling missing values, feature encoding, class balancing, and building Machine Learning models (XGBoost, Random Forest, Decision Tree).

**Link:** <https://github.com/ZahraSahranavard/Heart-Disease-Prediction-ML>
- **SpaceX Launch Prediction** Mar 2025

The objective of this project is to develop and compare Machine Learning models for accurately predicting the successful landing of the SpaceX Falcon 9 first stage, which can significantly impact the overall rocket launch cost. In this program, the performance of various Machine Learning algorithms such as Logistic Regression, SVM, Decision Tree, and KNN was evaluated and compared.

**Link:** <https://github.com/ZahraSahranavard/SpaceX-ML>
- **Bank Transaction Analysis** Mar 2025

Developed a Python-based analysis of a real banking transaction dataset to uncover insights into customer behavior, peak transaction times, top-performing stores, and best-selling products. Conducted data preprocessing, time-based feature engineering, exploratory data analysis, and visualized key trends using charts.

**Link:** <https://github.com/ZahraSahranavard/Bank-Transaction-Analysis>
- **Gender Image Classification** Feb 2025

The goal of this project was to classify images of men and women using deep learning techniques. I built a Convolutional Neural Network (CNN) leveraging transfer learning with VGG16 for the classification. The project included data preprocessing, feature extraction, fine-tuning, and practical application of the model.

**Link:** <https://github.com/ZahraSahranavard/Gender-Image-Classification>
- **Breast Cancer Classification** Jan 2025

Developed and evaluated multiple machine learning models (Naïve Bayes, KNN, Decision Tree, Random Forest, SVM, Logistic Regression, ANN) to classify breast cancer tumors as malignant or benign with high accuracy. Performed data preprocessing, feature analysis, and model comparison using metrics such as accuracy, precision, recall, and F1-score.

**Link:** <https://github.com/ZahraSahranavard/Breast-Cancer-Classification-ML>
- **DNA Sequence Classification** Des 2024

Developed a project to classify DNA sequences using k-mer analysis and Multinomial Naive Bayes. Performed DNA sequence preprocessing into overlapping k-mers, extracted features using n-grams, trained a predictive model, and evaluated it with accuracy, precision, recall, and F1-score.

**Link:** <https://github.com/ZahraSahranavard/DNA-Sequence-ML>
- **YouTube Subtitle Translator** Oct 2024

This project utilizes the powerful API of the Gemini 2.0 Flash model to translate YouTube video subtitles into fluent Persian. The goal of this project is to create a practical tool and develop a user-friendly and easy-to-use interface using the Streamlit library for Persian speakers.

**Link:** <https://github.com/ZahraSahranavard/YouTube-Subtitle-Translator>

## Publication

- **A Real-Time Touchless Mouse Control System Based on Hand Gestures Using Computer Vision and Python Libraries** Dec 2025

*Journal of Science and Engineering Elites*  
Accepted, to be published in December 2025