



# Seyyed Sina Negahban

Student

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## EDUCATION

### Bachelor of Science Degree in Computer Engineering

Amirkabir University of Technology (Tehran Polytechnic) [🔗](#)

Sep 2022 – present  
Tehran, Iran

**GPA: 19.34/20**

*Expected Graduation: Summer 2026*

**Selected Courses:** Principles & Applications of Artificial Intelligence, Principles of Computational Intelligence, Applied Linear Algebra, Data Structures and Algorithms, Algorithm Design, Signals and Systems, Statistics and Probability, Linear Optimization, Database Design

### High School Diploma, Mathematics and Physics

Allameh Amini Exceptional Talents (Sampad)

Sep 2019 – Jun 2022  
Tabriz, Iran

**GPA: 19.75/20**

## PROFESSIONAL EXPERIENCE

### Data Scientist

Ferrum Capital [🔗](#)

Jun 2025 – Present  
Tehran, Iran

Building predictive models for credit default timing and developing autonomous AI agents

### Research Intern

Institute for Research in Fundamental Sciences (IPM) [🔗](#)

Jun 2024 – Aug 2024  
Tehran, Iran

Worked on Deep Perspective Transformation for Autonomous Vehicles

## SKILLS

### Programming Languages

Python, Java, C/C++, JavaScript, HTML/CSS

### AI, ML

- **Supervised Learning:** Regression, Classification, Tree-based Models
- **Unsupervised Learning:** Clustering, Reinforcement Learning, Anomaly Detection
- **Deep Learning:** Neural Networks, CNNs, RNNs
- **Libraries & Tools:** NumPy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, PyTorch
- **Other:** Recommender Systems, Bayesian Networks

### Software Development

**Programming & Frameworks:** Django, FastAPI, Node.js, Vue.js

**Databases:** PostgreSQL, MySQL, SQLite

**Version Control:** Git, GitHub, GitLab

**Operating Systems & Tools:** Linux, Bash, Docker

## PROJECTS

### Loan Default Prediction Analysis [🔗](#)

A Jupyter notebook that implements a machine learning pipeline to predict loan default risk

### MyTorch (Custom Deep Learning Library) [🔗](#)

A custom and lightweight neural network framework built from scratch in Python

### Chess [🔗](#)

A python-based chess program utilizing adversarial search algorithms for intelligent gameplay

### Taxi-V3 [🔗](#)

Implementations of several reinforcement learning algorithms in Jupyter Notebook to solve the Taxi-v3 environment

Custom XV6

A project to modify the XV6 operating system with adding new features

Quiz Match

A full-featured CLI-based multiplayer quiz game built with Python and PostgreSQL

Samad (Food and Cafeteria Management)

A project written in C designed for food reservation and cafeteria management in schools and universities

TEACHING EXPERIENCE	
<b>Principles &amp; Applications of Artificial Intelligence Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Mahdi Javanmardi	Spring 2025 – Fall 2025
<b>Signals and Systems Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Mohammad Rahmati	Spring 2025 – Fall 2025
<b>Applied Linear Algebra Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Mostafa Haghiri Chehreghani	Spring 2025 – Fall 2025
<b>Algorithm Design Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Mahdi Javanmardi	Fall 2025
<b>Artificial Intelligence Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Mehdi Ghatee	Fall 2025
<b>Applied Linear Algebra Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Maryam Amir Mazlaghani	Spring 2025
<b>Computer Architecture Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Azim Farghadan	Spring 2025
<b>Applied Linear Algebra Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Ehsan Nazerfard	Fall 2024
<b>Advanced Programming Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Hossein Zeinali and Dr. Amir Kalbasi	Spring 2024
<b>Fundamentals of Computer Programming Teaching Assistant</b> <i>Amirkabir University of Technology (Tehran Polytechnic)</i> Under the supervision of Dr. Morteza Zakeri	Spring 2024

LANGUAGES	
<b>English</b> Advanced (C1: IELTS Academic 7.5)	<b>French</b> Elementary (A2)
<b>Persian</b> Native	<b>Turkish</b> Mother tongue

ACHIEVEMENTS	
<b>Top 5 Class Rank</b> Ranked 5th of 124 in Computer Engineering, Amirkabir University of Technology	Sep 2022 – present
<b>National University Entrance Exam 1401</b> Rank 223 among 132452 participants	Jun 2022

COURSES	
<b>Neural Networks and Deep Learning</b> <i>DeepLearning.AI, Stanford University</i>	Jan 2025
<b>Machine Learning Specialization</b> <i>DeepLearning.AI, Stanford University</i>	Jan 2025
<b>Intro to Machine Learning</b> <i>kaggle.com</i>	Jun 2024