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## Website

[Resume Website](#)

## Social networks

in linkedin  
github

## Skills

### Programming Language :

- Python
- Java
- C
- MQL4
- PineScript

### AI :

- Machine Learning
- Deep Learning
- NLP
- Large Language Models (LLMs)
- Time Series Forecasting
- Data Preprocessing
- Exploratory Data Analysis (EDA)
- Data Visualization

### Frameworks and Libraries :

- Pandas, Numpy, Matplotlib, Seaborn
- NLTK, Spacy
- Scikit-Learn
- Tensorflow
- NLTK & SpaCy
- LangChain
- yfinance

### Database

- MySQL
- SQL Server
- PostgreSQL
- Neo4j

### Concepts :

- OOP

### Tools & Version Control:

- Git, Github
- Docker

# Mohammadreza Sheikholeslami

## About me

I'm a Computer Science student at Amirkabir University of Technology with a GPA of 19.11/20, passionate about Artificial Intelligence, Machine Learning, and Data Science. As a Teaching Assistant for AI and Advanced Programming courses under Prof. Mahdi Ghatee, I've deepened my expertise in Python, Java, and core ML and DL concepts. I hold certifications from Stanford University, IBM, DeepLearning.AI, and Quera in ML, NLP, data analysis, and time series forecasting. My project portfolio includes a Persian Financial Chatbot powered by LangChain, ML-based news classification, salary prediction models, and a Java-based e-commerce application. I also have experience developing trading bots with MQL4 and financial analysis with Pine Script. I achieved 7th place in the ATC II Algorithmic Trading Challenge at Amirkabir. ([Quera assessment report](#))

## Education

### Bachelor's degree

Since 2023 **Amirkabir University of Technology** Tehran  
Bachelor of Science in **Computer Science**  
GPA: 19.11/20.0

### High School Diploma

From 2020 to 2023 **Allameh Helli (Sampad)** Tehran  
High School Diploma in **Mathematics**  
GPA: 18.87/20.0

## Work experience

### Teaching Assistant

Since August 2025 **Amirkabir University of Technology** Tehran

#### Artificial Intelligence

Instructor: Prof. Mahdi Ghatee

- **Programming Languages:** Python
- **Concepts:** Artificial Intelligence (AI), Machine Learning
- Deep Learning, Data Science

### Teaching Assistant

From January 2025 to June 2025 **Amirkabir University of Technology** Tehran

#### Advanced Programming

Instructor: Prof. Mahdi Ghatee

- **Programming Languages:** Java
- **Concepts:** Object-Oriented Programming (OOP), Data Structures, Algorithms
- **Tools & Platforms:** Git, GitHub
- **Databases:** MySQL

# Languages

**English**  
Fluent

**Persian**  
Native

# Certifications

- **Sequences, Time Series and Prediction**  
August 2025 DeepLearning.AI (Coursera)
  - Learned the fundamentals of time-series analysis and sequence modeling.
  - Built deep learning models using TensorFlow, including RNNs, LSTMs, and 1D ConvNets.
  - Developed a sunspot forecasting model using real-world time-series data.
  - Gained experience in creating windowed datasets, trend detection, and forecasting.
  - Understood how to optimize and evaluate predictive models with proper metrics. ([Link](#))
- **Machine Learning Specialization**  
From October 2024 to March 2025 Stanford University
  - Building ML models with NumPy and scikit-learn, building and training supervised models for prediction and binary classification tasks (linear, logistic regression)
  - Building and training neural networks with TensorFlow to perform multi-class classification, and building and using decision trees and tree ensemble methods
  - Applying best practices for ML development and using unsupervised learning techniques for unsupervised learning including clustering and anomaly detection
  - Building recommender systems with the collaborative filter approach and content-based deep learning approach, and building a deep reinforcement learning model ([Link](#))
- **Professional Project-Oriented Course in Machine Learning With Python**  
From August 2024 to December 2024 Quera
  - Mastered project management tips for ML workflows.
  - Executed data preparation and feature engineering.
  - Implemented various regression and classification techniques.
  - Conducted model evaluation, selection, and regularization.
  - Developed Artificial Neural Networks and gained an introduction to Natural Language Processing.
  - Applied unsupervised learning and clustering methods. ([Link](#))
- **Task-Oriented Course in Data Analysis With Python**  
From July 2024 to November 2024 Quera
  - Proficient in data cleaning and preparation techniques.
  - Skilled in data analysis and interpretation of results.
  - Adept at creating compelling data visualizations.
  - Extensive experience with NumPy, Pandas, Matplotlib, and Seaborn libraries. ([Link](#))
- **Professional Project-Oriented Course in Natural Language Processing**  
July 2025 Quera
  - Basic Text Processing in Python and Text Preprocessing with NLTK
  - Working with Regular Expressions (Regex)
  - Introduction to the Text Processing Pipeline in spaCy
  - Advanced Tokenization (spaCy, Subword, Byte-Pair)
  - Statistical Text Representation (One-hot, Bag of Words, Tf-Idf)
  - Text Classification with Machine Learning
  - The Concept of Language Model and the N-gram Method
  - Word Embedding and Introduction to Gensim ([Link](#))

## Certifications

### Databases and SQL for Data Science

From November 2024 to January 2025 [IBM](#)

- Mastered creating, deleting, and modifying databases and tables.
- Proficient in retrieving, deleting, and modifying data.
- Skilled in filtering and grouping data for analytical purposes.
- Adept at joining tables and optimizing data processing.
- Utilized built-in functions for data manipulation and explored advanced concepts like views and stored procedures. ([Link](#))

### Task-Oriented Course in Version Control With Git

Since January 2025 [Quera](#)

- Proficient in installing and running Git.
- Mastered basic Git commands (pull, push, commit).
- Skilled in working with branches, merge, and rebase operations.
- Adept at diagnosing and correcting repository errors.
- Experienced with supplementary commands (stash, cherry-pick) and platforms like GitHub and GitLab. ([Link](#))

## Personal Projects

### Persian Financial Chatbot

April 2025

Persian Financial Chatbot is an AI-powered assistant built with Streamlit that delivers real-time financial insights in Persian. Users can sign up, log in, and track their chat history, making it easy to manage past queries. It provides up-to-date market data—including stock prices, currency exchange rates, and gold values—through intuitive charts and conversational responses. Designed for Persian-speaking users, it offers a seamless and interactive financial information experience. ([Link](#))

### AUT AI Diabetes Project

November 2025

Designed an educational AI project for undergraduate students at Amirkabir University of Technology, involving exploratory data analysis, clustering, and classification on a large-scale diabetes clinical dataset, with model evaluation and hyperparameter tuning. ([Link](#))

### News Text Classification

From March 2024 to September 2024

This project implements a machine learning-based news text classification system. The goal is to categorize news articles into predefined categories (e.g., sports, politics, business) using their content. The project leverages various natural language processing (NLP) techniques for text preprocessing and machine learning models for accurate classification. Implemented in Python and Jupyter notebooks, it offers a clear and interactive demonstration of the underlying logic . ([Link](#))

### Portfolio Management

From January 2024 to February 2024

Designed to help individuals and institutions effectively manage their investment portfolios. The system allows users to track and analyze their assets, evaluate portfolio performance, and make data-driven decisions for financial growth. Built with a focus on data analysis, risk management, and visualization, the system allows users to understand the performance of their investments and assess the risks associated with their assets. ([Link](#))

## Personal Projects

- **Salary-Prediction**

From November 2024 to March 2025

Developed an end-to-end machine learning pipeline using the UCI Adult Income dataset to predict income levels (>50K), covering data collection, cleaning, preprocessing, feature engineering, and exploratory data analysis with visualizations. Trained and evaluated multiple classification models including Logistic Regression, Decision Tree, Random Forest, and XGBoost. Applied hyperparameter tuning with GridSearchCV and cross-validation, achieving ~86% accuracy with XGBoost. Performed comprehensive model comparison using accuracy, precision, recall, and F1-score. ([Link](#))

## Awards and honors

- **ATC || ( Algorithmic Trading Challenge)**

June 2025 [Amirkabir University of Technology](#)

I won 7th place in the “ATC II Algorithmic Trading” competition organized by the Computer Science Department of Amirkabir University of Technology. The competition focused on developing algorithmic trading strategies using historical market data.