

# Mohammad Taslimi

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## Education

- BS**    **Sharif University of Technology**, Electrical Engineering    Sept 2020 – May 2025
- GPA: 18.41/20 (19.02/20 last five semesters) ([More about me](#))

## Honor and Awards

- Ranked **8th** among **49,000** in Region 3 and **169th** among **140,000** nationwide in the National University Entrance Exam.

## Research Interests

- Machine Learning
- Large Language Models (LLMs)
- Privacy in Machine Learning, Trustworthy and Reliable Machine Learning
- Computer Vision and Image Processing

## Professional Experience

- MCINext**, Large Language Model (LLM) team    Tehran  
April 2024 – present
- Enhanced a RAG-based chatbot's extraction pipeline by adding keyword search to the existing semantic search, creating a hybrid-search approach to improve information retrieval from the knowledge base, addressing Persian language challenges like informal queries and typos through preprocessing.
  - Created a web crawler and scraper to extract and format live data from web pages in Markdown, improving the FAQ dataset for real-time chatbot responses.
  - Designed a pipeline for text extraction from scanned documents and images using OCR, incorporating preprocessing and post-processing to enhance text quality, addressing recognition issues specific to the Persian language.
  - Engaged in prompt engineering, optimizing the LLM system prompt to ensure effective instruction adherence.

## Notable Projects

- RAG-based Chatbot**
- Developed a RAG-based chatbot which uses LLMs and a custom knowledge base to answer domain specific queries. [github.com/MoTa2380/chatbot-RAG](https://github.com/MoTa2380/chatbot-RAG)
  - Tools Used: Docker, Python (Django), PostgreSQL, Qdrant

## Notable Courses

### Graduate

<b>Data Privacy (Differential Privacy)</b> , SUT, <b>19.4/20</b> , <a href="#">Dr. Yassaee</a>	Fall 2023
<b>Deep Learning</b> , SUT, <b>18.1/20</b> , <a href="#">Dr. Fatemizadeh</a>	Fall 2023
<b>Computer Vision</b> , SUT, <b>17.8/20</b> , <a href="#">Dr. Mohammadzade</a>	Fall 2023
<b>Privacy and Security in Machine Learning</b> , SUT, <b>17.9/20</b> , <a href="#">Dr. Sadeghzadeh</a>	Spring 2024
<b>Deep Generative Models</b> , SUT, <b>current course</b> , <a href="#">Dr. Amini</a>	Fall 2024

## Undergraduate

**Introduction to Machine Learning**, SUT, **20/20**, [Dr. Amini](#)

Spring 2023

**Convex Optimization**, SUT, **19.6/20**, [Dr. Yassaee](#)

Spring 2023

**Computer Networking**, SUT, **current course**, [Dr. Amini](#)

Fall 2024

**Linear Algebra**, SUT, **20/20**, [Dr. Kazemi](#)

Fall 2022

**Foundation of Cryptography and Security**, SUT, **18/20**, [Dr. Ahmadi](#)

Spring 2024

**Signals and Systems**, SUT, **19/20**, [Dr. Amini](#)

Spring 2023

**Digital Signal Processing**, SUT, **19/20**, [Dr. Amini](#)

Spring 2023

## Academic Services (Teaching Asistance)

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**Introduction to Machine Learning**, Homeworks Designer, 1 time

**Linear Algebra**, Head TA, 4 times

**Convex Optimization**, Computer Homework Designer, 1 time

**Signals and Systems**, Head of Theory Homeworks, 2 times

**Probability and Statistics**, Homework Designer, 1 time

**Communication Systems**, Homework Designer, 1 time

## Technologies

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**Languages:** Python (Django, Pytorch, OpenCV, ...), Java, C++, SQL, MATLAB

**Technologies:** Docker, Kubernetes, Gitlab-CI, ArgoCd, Linux (Ubuntu), git, Latex