

EDUCATION

University of Guilan

Bachelor of Science, Computer Engineering

Rasht, Guilan, Iran

September 2021 - September 2025

- GPA: **18.77/20 (3.81/4)**, Last two years GPA: **19.48/20 (4/4)**
- Ranked 4th out of 61 graduating students.

RESEARCH INTERESTS

- Computational Linguistics and NLP AI-driven IoT Systems and Robotics Generative AI Models

PUBLICATIONS AND RESEARCH EXPERIENCE

- Fatemeh Ahmadi, Anita Kamani, **Rastin Maleki**, Pooya Kazemian, Yasaman Boreshban and S. A. Mirroshandel. "**PerCG: The Persian Common Ground Dialogue Corpus**"
Submitted to Language Resources and Evaluation
Co-authored a research paper focused on building a Persian dataset for understanding and predicting common ground in conversations, and evaluating LLMs on this task.
- M. Amin Rezanezhad, **Rastin Maleki**, Sepehr Rezaei Melal, Mahdi Aminian, and S. M. Shekarian. "**Modeling the Prediction of Indoor Humidity and Temperature in Smart Greenhouses by Combining LSTM and IoT**"
In progress
Co-authoring a research paper focused on combining IoT systems with LSTM models to predict indoor humidity and temperature.
- **Rastin Maleki**, Mahdi Aminian. "**PolySilicon and Metal - A Glimpse on MOSFETs Design Challenges.**"
[\[PDF\]](#) [github.com](#)
Research Report
Conducted a research report exploring the changes in MOSFETs' gate electrode material throughout time as the final research project for AVLSI course. Through this project, I learned how to properly write academic content following proper formatting, creating figures, and managing references.

PROFESSIONAL EXPERIENCE

Machine Learning Developer

SeeNous

Part-time | Mashhad, Razavi Khorasan (Remote Part-time)

Since January 2025

- Trained deep learning models for fault detection in industrial machinery trained on vibration data.
- Built desktop applications tailored to company requirements using Python.
- Developed data cleaning pipelines.
- Integrated a Motion Detection and Amplification feature into the company's product.

TEACHING ASSISTANCE EXPERIENCE

Teaching Assistant

Multiple Courses

University of Guilan

September 2021 - September 2025

Participated in more than six courses, chosen for my academic excellence, strong communication skills, and proficiency in providing instructional support. Designed and assessed students' assignments and projects, provided complementary materials and conducted weekly troubleshooting sessions.

- Head Teaching Assistant, Data Structures, Instructed By Dr. S. A. Mirroshandel
- Head Teaching Assistant, Discrete Mathematics, Instructed By Dr. S. M. Shekarian
- Teaching Assistant, Electronic Circuits, Instructed By Dr. Mahdi Aminian
- Teaching Assistant, Advanced Programming, Instructed By Dr. S. A. Mirroshandel
- Teaching Assistant, Fundamentals of Computer Programming, Instructed By Dr. S. M. Shekarian
- Teaching Assistant, The Theory of Formal Languages and Automata, Instructed By Dr. S. M. Shekarian

SELECTED COURSES

- Deep Learning: 19 Engineering Probability and Statistics (Data Science): 20 Data Structures: 20
- Natural Language Processing: 19 Advanced Programming: 20 Algorithms Design: 19.91
- Artificial Intelligence: 19.21 Signals and Systems: 19.5 AVLSI System Design: 20

SELECTED PROJECTS (MORE PROJECTS ON GITHUB)

Labeling Dashboard

Qt, Software Development, Desktop Development, Clean Coding

October 2025

SeeNous

QA and RAG on Guilan Food Recipes

PyTorch, Fine-Tuning, LLM, RAG

September 2025

Course Project

ELVA: Embedded Language Model and Virtual Assistant

IoT, ESP32, Python, C, Hugging Face, LLM, TTS, STT

January 2025

Course Project

Website Traffic Prediction

Python, Data Science, Machine Learning, Classification Algorithms, Presentation and Documentation

November 2024

Datacamp Exam

Product Sales Analysis

Python, Data Analysis, Exploratory Data Analysis, Presentation and Documentation

October 2024

Datacamp Exam

Physical Layout for a Two-Bit Comparator Using L-EDIT IC

L-EDIT, Physical Layout, VLSI Design

Winter 2024

Course Project

NeonBlaster: An Arcade Shooting Game on FPGA

Cyclone® V FPGA, VHDL, Quartus Prime

Fall 2023

Course Project

Bomber Friends Game

Java, Java Swing, GUI, OOP

Spring 2022

Course Project

SELECTED CERTIFICATIONS

Machine Learning Specialization (3 Courses)

Machine Learning, Deep Learning, Reinforcement Learning, Data Ethics

Coursera | DeepLearning.AI

August 2025

Python for Everybody Specialization (5 Courses)

Web Scraping, Databases, Programming Principles, File Management, Data Cleansing

Coursera

July 2025

Data Scientist Certificate (Manually Graded Practical Exam)

Exploratory Analysis, Statistical Experimentation, Model Development, Communication and Reporting

DataCamp

November 2024

Data Analyst Certificate (Manually Graded Practical Exam)

Analytic Fundamentals, Exploratory Analysis, Data Management, Visualization and Reporting

DataCamp

October 2024

Data Engineer Certificate (Manually Graded Practical Exam)

Programming for Data Engineering, Data Management, Exploratory Analysis

DataCamp

October 2024

SQL Associate Certificate

Exploratory Analysis, Data Management

DataCamp

October 2024

HONORS AND AWARDS

- Ranked 4th among undergraduate students of major (2025).
- Acknowledged as exceptional talent by the University of Guilan for outstanding achievements (2025). 
- Achieved 2nd place in a university-level programming contest called Guilan CodeCup (2025). 
- Designed innovative problems for a university-level programming contest called Guilan ACM (2024). 
- Ranked within the top 6% among 127,000 participants in undergraduate Mathematics and Physics Iranian University Entrance Exam (SAT, the US equivalent) (2021).
- Ranked within the top 0.7% among 130,000 participants in undergraduate Foreign Languages Iranian University Entrance Exam (2021).

LANGUAGES AND TEST SCORES

Persian: Native

English: Fluent