

# Rastin Maleki

Rasht, Guilan, Iran

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## 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 4<sup>th</sup> out of 61 graduating students

## RESEARCH INTERESTS

- ☐ Computational Linguistics and NLP
- ☐ Deep Learning in Robotics and IoT Systems
- ☐ Generative AI Models
- ☐ Deep Learning and Signal Processing
- ☐ VLSI Design

## PUBLICATIONS AND RESEARCH EXPERIENCE

- M. Amin Rezanezhad, **Rastin Maleki**, Sepehr Rezaii 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.
- 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, aiming to improve the quality of Persian conversational AI. Providing a baseline for future research by evaluating LLMs effectiveness in capturing common ground between speakers.
- **Rastin Maleki**, Mahdi Aminian. **“PolySilicon and Metal - A Glimpse on MOSFETs Design Challenges.”**  
[\[PDF\]](#) [github.com](https://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.

## 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, 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
- Teaching Assistant, Electronic Circuits, Instructed By Dr. Mahdi Aminian


## 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








SKILLS & TECHNOLOGIES

Programming Languages	: Python, Java, C++ , VHDL
ML and Data Science Tools	: PyTorch, TensorFlow, Scikit-Learn, NLTK, Spacy, Hugging Face, Tableau
IOT & Micro Controllers	: Arduino IDE, MQTT, Node Red, Thingspeak
Hardware Design	: Proteus, LEDIT, Intel Quartus, ISE Xilinx
Databases	: SQL server, MySQL, ER Diagram Design
Other Technologies	: Git, $\LaTeX$ , Microsoft Office, Cisco Basics, PyQt, Git, Figma
Computer Science	: Deep Learning, Data Science, Data visualization and storytelling, Statistics, Building and fine-tuning models, RAGs, Data Structures and Algorithms, OOP programming
Non-Technical	: Problem Solving, Problem Designing, Teaching, Presentation, Documentation







PROFESSIONAL EXPERIENCE

Python Developer	Remote   Mashhad, Razavi Khorasan
SeeNous 	Since January 2025
<ul style="list-style-type: none"><li>• Trained deep learning models for fault detection in industrial machinery trained on vibration data.</li><li>• Built desktop applications and dashboards tailored to company requirements using Python.</li><li>• Developed data cleaning pipelines.</li><li>• Integrated a Motion Detection and Amplification feature into the company's product.</li><li>• Collaborated in daily Scrum meetings, weekly sprint plannings, and OKRs.</li></ul>	

SELECTED PROJECTS ( [MORE PROJECTS ON GITHUB](#) )




QA and RAG on Guilan Food Recipes 	September 2025
PyTorch, Fine-Tuning, RAG	
ELVA: Embedded Language Model and Virtual Assistant 	January 2025
IoT, ESP32, Python, C, Hugging Face, LLM, TTS, STT	
Website Traffic Prediction 	November 2024
Python, Data Science, Machine Learning, Classification Algorithms, Presentation and Documentation	
Product Sales Analysis 	October 2024
Python, Data Analysis, Exploratory Data Analysis, Presentation and Documentation	
Physical Layout for Two Bit Comparator Using L-EDIT IC 	Winter 2024
L-EDIT, Physical Layout, VLSI Design	
NeonBlaster: An Arcade Shooting Game on FPGA 	Fall 2023
Cyclone® V FPGA, VHDL, Quartus Prime	
Bomber Friends Game 	Spring 2022
Java, Java Swing, GUI, OOP	

SELECTED CERTIFICATIONS

Machine Learning Specialization (3 Courses) 	Coursera   DeepLearning.AI
Machine Learning, Deep Learning, Reinforcement Learning, Data Ethics	
August 2025	
Python for Everybody Specialization (5 Courses) 	Coursera   University of Michigan
Web Scraping, Databases, Programming Principles, File Management, Data Cleansing	
July 2025	
Data Scientist Certificate (Manually Graded Practical Exam) 	DataCamp
Exploratory Analysis, Statistical Experimentation, Model Development, Communication and Reporting	
November 2024	
Data Analyst Certificate (Manually Graded Practical Exam) 	DataCamp
Analytic Fundamentals, Exploratory Analysis, Data Management, Visualization and Reporting	
October 2024	
Data Engineer Certificate (Manually Graded Practical Exam) 	DataCamp
Programming for Data Engineering, Data Management, Exploratory Analysis	
October 2024	
SQL Associate Certificate 	DataCamp
Exploratory Analysis, Data Management	
October 2024	

## HONORS AND AWARDS

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- Ranked 4<sup>th</sup> CGPA among undergraduate students of major (2025).
- Acknowledged as exceptional talent by the University of Guilan for outstanding achievements (2025). 
- Achieved 2<sup>nd</sup> 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

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**Persian:** Native      **English:** Fluent (Ielts to be taken soon)      **GRE:** (To be taken soon)

## REFERENCES

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<b>Dr. Seyed Abolghasem Mirroshandel</b> <i>Associate Professor, University of Guilan</i>	<b>Rasht, Guilan</b> <a href="#">Email</a>   <a href="#">Home</a>   <a href="#">Scholar</a>
<b>Dr. Seyed Mohammad Hossein Shekarian</b> <i>Assistant Professor, University of Guilan</i>	<b>Rasht, Guilan</b> <a href="#">Email</a>   <a href="#">Home</a>   <a href="#">Scholar</a>
<b>Dr. Mahdi Aminian</b> <i>Assistant Professor, University of Guilan</i>	<b>Rasht, Guilan</b> <a href="#">Email</a>   <a href="#">Home</a>   <a href="#">Scholar</a>