

# SEYED AMIR KASAEI

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## EDUCATION

- **Bachelor of Science, Computer (Software) Engineering** (Sep 2019 – Aug 2023)  
University of Guilan  
GPA:3.98/4 (Grade: 19.58) - **Ranked 1st**

## HONORS & AWARDS

- **Ranked 1st** among B.Sc. Computer Engineering Students ([Certificate in Persian](#)) Sep 2019 – Aug 2023
- M.Sc of Software Engineering **Admission** at **Sharif University of Technology** Sep 2023  
as an **Exceptional Talented Student**
- **Tuition Waiver**, Bachelor of Science, University of Guilan Sep 2019 – Aug 2023

## RESEARCH INTERESTS

**Machine Learning, Deep Learning, Data Mining, Computer Vision, Bioinformatics, Medical Image Processing, Natural Language Processing, Meta-Learning**

## RESEARCH PAPERS

- **MAML on Human Sperm Abnormality Detection** (in progress)  
**Seyed Amir Kasaei**, Amir Mohammad Ezzati, Amin Mokaddar Daemdoost, Seyed Abolghasem Mirroshandel.

## EXPERIENCES

- **IT Support Technician**  
Guilan Soha Seir  
Sep 2019 - Present
- **Teaching Assistant of Artificial Intelligence**  
Univeristy of Guilan  
Sep 2022 - Jan 2023  
Instructor: Dr. Yasaman Boreshban
- **Teaching Assistant of Digital Circuits**  
Univeristy of Guilan  
Sep 2022 - Jan 2023  
Instructor: Dr. Mahhdi Aminian
- **Teaching Assistant of Microelectronic Circuits**  
Univeristy of Guilan  
Feb 2023 - Jun 2023  
Instructor: Dr. Mahhdi Aminian

## SELECTED ACCOMPLISHED PROJECTS - (Other Projects on Github)

- **MAML on Human Sperm Abnormality Detection** - [Github repository](#)
  - We used MAML model to detected human sperm abnormality on its head, vacoucle, acrosome, and tail.
  - In this project we used **Learn2learn, Scikit-learn, PyTorch, Numpy, Matplotlib, seaborn.**
- **Arabic Broken Plurals** - [Github repository](#)
  - We implemented a character based Machine Translation Model model to predict plural form of arabic words.
  - In this project we used **BERT Embedding, Pandas, Scikit-learn, Keras, Tensorflow, Numpy.**
  - This project was done as a partnership with Dr. SA Mirroshandel for **Stony Brook University**
- **Image Segementation on CamVid using SegNet** - [Github repository](#)
  - We implemented SegNet model to partition input images into 32-class regions .
  - In this project we used **Pandas, Scikit-learn, Keras, Tensorflow, Numpy, Matplotlib.**
- **Multi-Class Weather Classification** - [Github repository](#)
  - We implemented Simple CNN, Resnet And Inception Net for image classification.
  - In this project we used **Pandas, Scikit-learn, Keras, Tensorflow, Numpy, Matplotlib.**

- **An Odd Music Generator** - [Github repository](#)
  - We implemented a Denoising Auto Encoder model to denoise the input song, a Deep Neural Network to Recognize notes in the input song and a Language model to predict the next note of the song.
  - In this project we used **Scikit-learn, Keras, Tensorflow, Numpy, Librosa, Matplotlib**.
- **Multi-Label Text Classification** - [Github repository](#)
  - We implemented a multi task language model to predict class type of subjects and also the sentiment analysis of sentences.
  - In this project we used **Pandas, Scikit-learn, Keras, Tensorflow, Numpy, Hazm, NLTK, Matplotlib**.

## NOTABLE COURSES

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| • <b>Fundamental of Data Mining</b> - 20 / 20                             | • <b>Software Testing</b> - 20 / 20                               |
| • <b>Special Topics 1 (Deep Learning)</b> - 19.8 / 20                     | • <b>Algorithm Design</b> - 20 / 20                               |
| • <b>Special Topics 2 (Introduction to Machine Learning)</b> - 18.16 / 20 | • <b>Fundamentals of Compiler Design</b> - 20 / 20                |
| • <b>Fundamental of Speech and Natural Language Processing</b> - 20 / 20  | • <b>The Theory of Formal Languages and Automata</b> - 19.75 / 20 |
| • <b>Artificial Intelligence and Expert Systems</b> - 20 / 20             | • <b>Engineering Statistics and Probability</b> - 20 / 20         |
| • <b>Principles of Database Design</b> - 20 / 20                          | • <b>Signal and Systems</b> - 19.5 / 20                           |
| • <b>Data Structures</b> - 20 / 20  | • <b>Engineering Mathematics</b> - 19.75 / 20                     |
|   | • <b>Differential Equations</b> - 18.75 / 20                      |
|   | • <b>Discrete Mathematics</b> - 19.75 / 20                        |

## LICENSES & CERTIFICATIONS

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| <ul style="list-style-type: none"> <li>• <b>Deep Learning Specialization</b><br/>DeepLearning.AI<br/>Instructor: Andrew Ng<br/>Aug 2022<br/><a href="#">Credential</a></li> <li>• <b>Machine Learning Specialization</b><br/>DeepLearning.AI<br/>Instructor: Andrew Ng<br/>Sep 2022<br/><a href="#">Credential</a></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Fundamentals of Reinforcement Learning</b><br/>University of Alberta<br/>Instructor: Martha and Adam White<br/>Aug 2022<br/><a href="#">Credential</a></li> <li>• <b>Crash Course on Python</b><br/>Google<br/>Aug 2022<br/><a href="#">Credential</a></li> </ul> |
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## SKILLS

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- **Programming Language** : Python, Java, C++, VHDL
- **Data Visualization** : Matplotlib, Numpy, Pandas, Seaborn
- **Web development** : HTML, CSS, Bootstrap, jQuery, PHP, MySQL
- **Machine Learning & Deep Learning** : Scikit-learn, Keras, Tensorflow, Pytorch, Learn2learn, MAML
- **Computer Vision** : CNN, Image Segmentation, Image Classification, Image Processing
- **Natural language processing** : NLTK, hazm, Stemmer, Lemmatizer, Tokenizer, RNN, GRU, LSTM, BERT
- **Collaboration and Communication Tools** : Slack, GitHub, Skype

## REFERENCES

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**Dr. Seyed Abolghasem Mirroshandel**

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Associate Professor of Computer Engineering, University of Guilan, Rasht, Iran

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**Dr. Mahdi Aminian**

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Assistant Professor of Computer Engineering, University of Guilan, Rasht, Iran

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**Dr. Farid Feyzi**

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Assistant Professor of Computer Engineering, University of Guilan

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**Dr. Yasaman Boreshban**

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Lecturer, Sharif University of Technology, University of Guilan

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**Dr. Aida Khozaee**

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Lecturer, University of Guilan

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