

SEYED AMIR KASAEI

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EDUCATION

- **Bachelor of Science, Computer 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 Mirroshan-del.

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, vacoule, acrosome, and tail.
 - In this project we used **Learn2learn, Scikit-learn, PyTorch, Numpy, Matplotlib, seaborn.**
- **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.**
- **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.**

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

LICENSES & CERTIFICATIONS

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

SKILLS

- **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

Dr. Seyed Abolghasem Mirroshandel

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

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