SEYED AMIR KASAEI

in amir-kasaei

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EDUCATION

 Bachelor of Science, Computer Engineering University of Guilan GPA:3.98/4 (19.58/20) - Ranked 1st (Sep 2019 - Aug 2023)

HONORS & AWARDS

• Ranked 1st among B.Sc. Computer Engineering Students

Sep 2019 – Aug 2023

Honored as Exceptional Talented Student (Certificate in Persian)

Aug 2023

• Tuition Waiver, Bachelor of Science, University of Guilan

Sep 2019 - Aug 2023

RESEARCH INTERESTS

Machine Learning, Deep Learning, Computer Vision, Image Processing, Medical Image Analysis, Image Classification, Image Segmentation, Machine Learning Safety

RESEARCH PAPERS

MAML on Human Sperm Abnormality Detection
 Sevent Amin Manager Amin Makager

(in progress)

Seyed Amir Kasaei, Amir Mohammad Ezzati, Amin Mokaddar Daemdoost, Seyed Abolghasem Mirroshandel.

EXPERIENCES

Research Assistant

Sep 2022 - Aug 2023 Univeristy of Guilan

Supervisor: Dr. S A Mirroshandel

Deep Learning

Teaching Assistant of Digital Circuits

Sep 2022 - Jan 2023 Univeristy of Guilan Instructor: Dr. Mahhdi Aminian

Designing and Grading Assignments and Projects,

Problem Solving Classes

Teaching Assistant of Artificial Intelligence and Expert Systems

Sep 2022 - Jan 2023 Univeristy of Guilan

Instructor: Dr. Yasaman Boreshban

Designing and Grading Assignments and Projects,

Problem Solving Classes

Teaching Assistant of Microelectronic Circuits

Feb 2023 - Jun 2023 Univeristy of Guilan

Instructor: Dr. Mahhdi Aminian

Designing and Grading Assignments and Projects,

Problem Solving Classes

SELECTED ACCOMPLISHED PROJECTS - (Other Projects on Github)

- CT-scan Image Segmentation using 3D-UNet Github repository
 - 3D-UNet model is implemented to segment liver in CT-scan images and compared to 2D-UNet
 - Scikit-learn, Torch, Numpy, Matplotlib, OpenCV
- Breast Tumor Classification using GNN Github repository
 - GNN model is implemented to classify Breast Tumor on BRACS dataset
 - Histocartography, DGL, Torch Geometric, Torchvision, Scikit-learn, Torch, Numpy, Matplotlib, OpenCV, Pandas
- · Arabic Broken Plurals Github repository
 - We implemented a character based Machine Translation model to predict plural form of arabic words
 - BERT Embedding, Pandas, Scikit-learn, Keras, Tensorflow, Numpy
 - This project was done as a partnership with Dr. SA Mirroshandel for **Stony Brook University**
- Multi-Class Weather Classification Github repository
 - Simple CNN, Resnet And Inception Net are all implemented andd compared for image classification
 - 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.
- Scikit-learn, Keras, Tensorflow, Numpy, Librosa, Matplotlib
- Multi-Lable Text Classification Github repository
 - We implemented a multi task language model to predict class type of subjects and also the sentimental analysis
 of sentences.
 - Pandas, Scikit-learn, Keras, Tensorflow, Numpy, Hazm, NLTK, Matplotlib

NOTABLE COURSES

- Fundamental of Data Mining 20 / 20
- Special Topics 1 (Deep Learning) 19.8 / 20
- Special Topics 2 (Introduction to Machine Learning) - 18.16 / 20
- Fundamental of Language and Speech Processing -20 / 20
- Artificial Intelligence and Expert Systems 20 / 20
- Database 20 / 20
- **Data Structures** 20 / 20

- Software Testing 20 / 20
- Algorithm Design 20 / 20
- Principles of Compiler Design 20 / 20
- The Theory of Languages and Automata 19.75 / 20
- Engineering Statistics and Probability 20 / 20
- Signals and Systems 19.5 / 20
- Engineering Mathematics 19.75 / 20
- Differential Equations 18.75 / 20
- Discrete Mathematics 19.75 / 20

LICENSES & CERTIFICATIONS

 Deep Learning Specialization - Credential DeepLearning.AI - Aug 2022

Instructor: Andrew Ng

• Funds. of Reinforcement Learning - Credential

University of Alberta - Aug 2022 Instructor: Martha and Adam White

• Crash Course on Python -Credential

Google - Aug 2022

• Machine Learning Specialization - Credential

DeepLearning.AI - Sep 2022 Instructor: Andrew Ng

• IELTS - Certificate

IDP - Sep 2023

Overall: 6.5

Listening: 7, Reading: 6.5, Writing: 6, Speaking: 6

SKILLS

- Programming Language: Python, Java, C++, VHDL
- Data Visualization : Matplotlib, Panadas, Seaborn, OpenCV, Wandb
- Machine Learning & Deep Learning: Scikit-learn, Keras, Tensorflow, Pytorch, Learn2learn, Numpy
- Computer Vision: Image Classification, Image Segmentation, Image Processing
- Natural Language Processing: NLTK, Hazm, BERT, Language Models, Text Classification
- Collaboration and Communication Tools: Slack, GitHub, Skype, Discord
- Web development: HTML, CSS, Bootstrap, jQuery, PHP, MySQL

REFERENCES

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

University of Guilan Google Scholar

Dr. Yasaman Boreshban

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Lecturer, Sharif University of Technology, University of Guilan

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