

# SEYED AMIR KASAEI

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## EDUCATION

- **Master of Science, Computer Software Engineering** (Sep 2023 – Present)  
Sharif University of Technology  
GPA:4/4 (18.5/20) - **with focus on Computer Vision**
- **Bachelor of Science, Computer Engineering** (Sep 2019 – Aug 2023)  
University of Guilan  
GPA:3.98/4 (19.58/20) - **Ranked 1st**

## HONORS & AWARDS

- M.Sc of Software Engineering **Admission** at **Sharif University of Technology** as an **Exceptional Talented Student** Sep 2023
- **Ranked 1st** among B.Sc. Computer Engineering Students Sep 2019 – Aug 2023

## RESEARCH INTERESTS

- Computer Vision, **Compositional Generation**, Text-to-Image Generation, Diffusion Models, Medical Image Analysis

## RESEARCH PAPERS

- **CARINOX: Inference-time Scaling with Category-Aware Reward based Initial Noise Optimization and Exploration**  
Seyed Amir Kasaei, Ali Aghayari, Arash Marioriyad, Niki Sepasian, Shayan Baghayi Nejad, MohammadAmin Fazli, Mahdiah Soleymani Baghshah, Mohammad Hossein Rohban  
*Under review at ICCV 2025*

## EXPERIENCES

- **Research Assistant**  
Sep 2023 - Present  
[RIML Lab](#) (Sharif University of Technology)  
Supervisor: [Dr. M H Rohban](#)  
Compositional Generation
- **Teaching Assistant of System 2 in AI**  
Feb 2025 - June 2025  
Sharif University of Technology  
Instructor: Dr. M H Rohban, Dr. M Soleymani Baghshah  
Designing and Grading Assignments, Exams and Projects
- **Teaching Assistant of Deep Learning**  
Feb 2025 - June 2025  
Sharif University of Technology  
Instructor: Dr. M Soleymani Baghshah  
Designing Assignments and Exams
- **Teaching Assistant of Intelligent Analysis of Biomedical Images**  
Sep 2024 - Jan 2025  
Sharif University of Technology  
Instructor: Dr. M H Rohban  
Designing and Grading Assignments, Exams and Projects
- **Research Assistant**  
Sep 2022 - Aug 2023  
Univeristy of Guilan  
Supervisor: Dr. S A Mirroshandel  
Medical Image Analysis

## 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.**
- **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**

## NOTABLE COURSES

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### Master of Science

- Data Science in Software Engineering - 19 / 20
- Intelligent Analysis of Biomedical Images - 20 / 20
- Deep Learning - 16.7 / 20
- Algorithmic Game Theory - 19.5 / 20
- Massive Data Algorithms - 19.5 / 20
- Randomized Algorithms - 16.5 / 20
- Software Engineering - 18.5 / 20

### Bachelor of Science

- Fundamental of Data Mining - 20 / 20
- Introduction to Deep Learning - 19.8 / 20
- Introduction to Machine Learning - 18.16 / 20
- Fundamental of Language and Speech Processing - 20 / 20
- Artificial Intelligence and Expert Systems - 20 / 20
- Signals and Systems - 19.5 / 20

## LICENSES & CERTIFICATIONS

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- **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

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- **Programming Language** : Python, Java, C++
- **Data Visualization** : Matplotlib, Panadas, Seaborn, OpenCV, Wandb
- **Machine Learning & Deep Learning** : Scikit-learn, Keras, Tensorflow, Pytorch, Learn2learn, Numpy
- **Computer Vision** : Diffusion, Text-to-Image Generation, Multimodal Models
- **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

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### Dr. Mohammad Hossein Rohban

[rohan@sharif.edu](mailto:rohan@sharif.edu)

Associate Professor of Computer Engineering, Sharif University of Technology, Tehran, Iran

*Sharif University of Technology*

*[Google Scholar](#)*

### Dr. Mohammad Amin Fazli

[fazli@sharif.edu](mailto:fazli@sharif.edu)

Associate Professor of Computer Engineering, Sharif University of Technology, Tehran, Iran

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