Maedeh Mirzazadeh

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Location: Tehran-Iran

Research Interests

- Deep Learning
- Computer Vision
- Medical Imaging
- Robotics
- Dynamic Systems

Education

- **Amirkabir University of Technology[website]** Tehran, Iran
  B.S. in Computer Engineering 2018–current
  GPA: 4/4 (19.34/20.0 for the Last 8 semesters)
  Advisor: Prof. Reza Safabakhsh [homepage]
  Major-related courses:
  - Principles of Computational Intelligence: 20/20
  - Principles Applications of Artificial Intelligence: 20/20
  - Algorithm Design: 20/20
  - Data Structures and Algorithms: 19/20
  - Advanced Programming: 20/20
- **National Organization for Development of Exceptional Talents[Wikipedia]** Qom, Iran
  High School Diploma in Mathematics and Physics 2015–2018
  GPA: 19.96/20.0

Teaching Exprience

- **Teaching Assistant at Amirkabir University of Technology** 2021-2022 (second semester)
  Principles and Applications of Artificial Intelligence(Dr. Javanmardi [linkedin])
- **Teaching Assistant at Amirkabir University of Technology** 2021-2022 (second semester)
  Algorithm Design(Dr. Bagheri[homepage])
- **Teaching Assistant at Amirkabir University of Technology** 2021-2022 (second semester)
  Data structure(Dr. Shahreza [website])

Honors and Rewards

- Ranked top 2% among students of computer engineering department(4 out of 176 students) 2018-2022
- Ranked top 1% among over 144000 Iranian participants in the national university entrance exam(Regional rank of 366 and nationwide rank of 1247) 2018
- Awarded as University's Exceptionally Talented Student 2018-2022

Work Experience

- **Institute for Research in Fundamental Sciences (IPM)[website]** Tehran, Iran
  Internship 06/2021–09/2021
  Analyzing efficient deep learning algorithms for classification of white blood cell Leukemia
- **Quera College[website]** Tehran, Iran
  C++ Tutor 12/2020–12/2021
  Teaching Fundamentals of C++ and Computational Thinking at CodeUp 2 and 3 to a Group of High School Students

Skills

- **Programming Languages:** Java, C, C++, Python, SQL, ARM Assembly
- **Libraries and Frameworks:** Numpy, Matplotlib, TensorFlow
- **Engineering and Developement Tools:** IntelliJ, PyCharm, DataGrip, Git, Arduino IDE, Wireshark, Proteus

Languages

- **English:** TOFEL iBT: To be taken on Sept. 17, 2022
- **Persian:** Native

Notable Academic Projects

- **CoDet**
  - Implementation of an app-based COVID-19 detection system for CXR images and CT scans using VGG16, VGG19, ResNet50 and InceptionV3 models[code]
- **Projects Related to Principles of Computational Intelligence Course**
  - Implementation of a fuzzy expert system for heart disease diagnosis[code]
  - Implementation of a pure-python image classification model using fully connected neural networks and CIFAR-10 dataset[code]
  - Implementation of a neuroevolution algorithm using a simple game[code]
- **Projects Related to Principles Applications of Artificial Intelligence Course**
  - Implementation of several search algorithms, multiagent minimax and expectimax algorithms, alpha-beta pruning, model-based and model-free reinforcement learning algorithms inside the Pacman world[code]

Extracurricular Activities

- Referee and member of organization committee at "Student Demonstrative Robots" League March–2019
  Iran Robocamp(FIRA CUP)
- Mentoring student projects September–2020
  Rasta summer school