

Rabee Parhizkary

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EDUCATION

Sharif University of Technology

BSc student in Computer Science

Cumulative GPA: 15.38/20

Last semester:18.2

Related Courses

- Passed Courses: 3D Computer Vision, Regression and Data Analysis, Bioinformatics, Optimization, Operations research, Advanced Programming, Linear Algebra, Statistics and Applications, Data Structures, Probability and Applications
- Audited courses: Deep learning, Machine learning, Artificial Intelligence in Clinical Practice

Diploma in Mathematics and Physics

- Farzanegan High School
- Affiliated with the National Organization for Development of Exceptional Talents (NODET) **Cumulative GPA: 19.5/20**

Honors and Awards

2021 Ranked 395th (top 0.1 %) in the National Universities Entrance Exam for Mathematics and Physics Majors

2020 Ranked 37th in the National Mathematics Olympiad (Bronze Medal)

Grant for Undergraduate Studies for Outstanding Academic Success

Research Interests

- Deep learning
- Optimization
- Machine learning
- Bioinformatics
- Computer Vision
- Image processing
- Neuroscience

Research Experience

- Research Assistant, Cortical orientation selectivity model survey, Under Supervision of Prof. Peivandi
 - Writing a survey on Cortical Orientation Selectivity models
 - Working on a new model for Cortical Orientation Selectivity based on Markov chains(ongoing)

Research Assistant, Auto-encoder based GAN for medical image, Under Supervision of Prof. Vaezi

- Improving the model proposed by Jun Wang , Bohan Lei, Liya Ding , Xiaoyin Xu , Xianfeng Gu , Min Zhang in Autoencoder-based conditional optimal transport generative adversarial network for medical image generation(2024) for Retina image generation by detecting and encoding the binary vessel tree in the retina.
- Creating an algorithm for determining a threshold for clipping singular values.(Ongoing)

Related Course Projects

Project of 3D Computer Vision (Prof.Hanieh Naderi)

- Enhancing the model proposed by Raviteja Vemulapalli and Aseem Agarwala in A Compact Embedding for Facial Expression Similarity(2019)
- Adding a face detector as a pretraining step
- Using a shallow attention dense net architecture(GIT)

Traffic project for Data Analysis and Regression course (Prof.Kasra Alishahi)

- We wanted to determine the most traveled city during Nowrouz in North of Iran
- We had the data of cars that entered or left for each town hourly and daily. We determined whether a town had a lot of entrances because it's merely between 2 towns or a tourist destination.
- Lastly, we determined the touristic cities using clustering and hypothesis testing(GIT)

Digikala project for Data Analysis and Regression course (Prof.Kasra Alishahi)

- Calculating satisfaction of consumers from cosmetic products based on comments published by Digikala(an Iranian online shop)
- Estimating how much Didikala was selling each product
- Combining these variables to find the most profitable product a company can produce(GIT)

Work Experience

- Data analysis internship in Novin Institute (Summer 2023)
- My duties mainly included data collection and preparation and assistance in financial data analysis

Teaching Assistantships

- Sharif University of Technology Tehran, Iran
- Advanced Programming: Designing and grading homework Prof.Bomeri, winter 2022
- Advanced Programming: Designing and grading homework Prof.Bomeri, winter 2024
- Statistics and Applications: Designing homework Prof.Mostafid, winter 2024
- Linear Algebra: Designing and grading homework Prof.Bahraini, winter 2024

Language Proficiency

- Persian (Native)
- English (Fluent)

References

- Hosein Peyvandi h.peyvandi@sharif.edu
- Arash Vaezi (avaezi@ce.sharif.edu)

Skills

- Machine Learning Tools: Keras, Pandas, Numpy, Scikit-learn,OpenCV, PyTorch, Tensorflow
- Programming Languages: Python, R, java, Assembly (MIPS)
- Technologies: Git
- Other Skills: LATEX, HTML, CSS, Presentation
- Frameworks and Operating Systems: Windows, Git,Mac

Other Interests and Hobbies

- Swimming, member of the university's swimming team
- Sculpting
- Video Games (Dota2 addict)