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Ali Banaei

Education

2016-present Bachelor of Computer Engineering, Sharif University of Technology, Tehran.

o GPA: 17.97/20 via 133 credits (19.1/20 in last two years)

2012–2016 Diploma in Mathematics and Physics, Sayyed Razi High School(Sampad),

Tehran.

o GPA: 19.70/20

Research Interests

Machine Learning, Neuroscience, Bioinformatics.

Honors & Awards

2016-08 **Iranian University Entrance Exam**, 47th place among students in Iranian University Entrance Exam(Konkur).

2020-05 **Offered A Tuition-Free Master's Program as an Excellence Award**, Sharif University of Technology, (Exempt from Nationwide Master's Entrance Exam).

Research Experiences

2018-2020 **Applications of Deep Learning in Communication**, *Sharif University of Technology*, INL Lab.

Researching the intersection of Machine Learning and Computer Networks under supervision of Dr.Jafari. Our work was concerned with enhancing the quality of data transmission, in particular images, through noisy networks using machine learning methods.

Publications

2020 Estiri A, Sabramooz M, Banaei A, Dehghan A, Jami B, Jafari M. "A Variational Auto-Encoder Approach for Image Transmission in Noisy Channel", International Symposium on Telecommunications 2020.

Contributed to the implementation of the VAE model. Also, responsible for improving the quality of images using Perception-based Image Quality Assessment Metrics.

Experiences

January–June **Teacher Assistant of Advanced Programming**, *Sharif University of Technology*, 2017 Tehran.

September- Teacher Assistant of Computer Networks, Sharif University of Technology, December Tehran. 2018 December Teacher Assistant of Computer Networks, Sharif University of Technology, 2019-June Tehran. 2020 December Teacher Assistant of Embedded Systems Design, Sharif University of Technol-2019–June ogy, Tehran. 2020 September Teacher Assistant of Game Theory, Sharif University of Technology, Tehran. 2020-today Computer Skills Advanced Java, Python, C, Keras/TensorFlow, Python Machine Learning and Data Analysis Tools(Pandas, Numpy, Scikit-Learn, Scipy) Familiar C++, Pytorch, R, MySQL, Git, Django, HTML, CSS, LATEX, bash Relevant Courses Fall 2018 Linear Algebra, 16.9 / 20. Fall 2018 Artificial Intelligence, 20 / 20. Spring 2019 Foundations of Neuroscience, 16.9 / 20. Spring 2019 Introduction to Bioinformatics, 20 / 20. Spring 2020 Machine Learning in Bioinformatics, 19.8/20, (Graduate Course). Languages English Advanced Persian Mother Tongue Academic Projects 2016–2017 **News Classifier Project**, *Sharif University of Technology*. Fundamental of Programming with C 2017–2017 **Farming Game**, Sharif University of Technology. Advanced Programming with Java 2017–2108 Design and Programming Joystick with Arduino, Sharif University of Technology. Computer Structure and Language 2018–2018 IJVM Emulator, Sharif University of Technology.

Computer Architecture

System Analysis and Design

2018–2018 House Renting Website, Sharif University of Technology.

2018–2018	P2P Network and Protocol Design and Implementation , <i>Sharif University of Technology</i> . Computer Networks
2018–2018	Data Classification with Machine Learning , <i>Sharif University of Technology</i> . Artifical Intelligence
2018–2019	Smart Door Lock Design and Implementation , <i>Sharif University of Technology</i> . Internet of Things
2018–2019	Microarray Data Analysis, Sharif University of Technology. Introduction to Bioinformatics
2018–2019	Analysis of Visual Features for Cortical Complex Cells, Sharif University of Technology. Foundations of Neuroscience
2019–2020	Drug-Target Binding Affinity Prediction Using Deep Learning , Sharif University of Technology. Machine Learning in Bioinformatics
2020–2021	Real Time scheduler for Arduino, Sharif University of Technology. Real Time Systems
	Habbina and Interceta

Hobbies and Interests

- Reading
- Swimming
- Sleeping