Feras Ra'ed

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Research Interests

I'm interested in exploring information stored in neural network weights or activations, and its connections, more broadly, in learning theory, and in the generalization phenomenon of deep neural networks. I'm also actively working on research in generative adversarial networks (GANs) and diffusion models.

Education

Oct '23 – Present

Jordan University of Science and Technology (JUST)

M.Sc. Computer Information Systems (Data Science)

- Advisors: Ahmad Alzubi
- Researching deep learning topics, including neural networks, generative adversarial networks, time series and meta learning
- GPA: 4.0/4.0

Feb '19 – Sep '22

Jordan University of Science and Technology (JUST)

B.Sc. Electrical and Telecommunications Engineering, (Accelerated Degree)

- Advisors: Ahmad Abu-El-Haija
- Relevant Courses: linear systems, signal and systems analysis, digital signal processing, digital communications.
- Additional Courses at CS & CPE Departments: artificial intelligence, advanced topics in programming

Experience

Sep '22 – Present

Deep Learning Enthusiast

Self-Study in Deep Learning

- Completed multiple online courses on machine learning, including [Stanford CS229: Machine Learning Full Course by Andrew Ng], [Machine Learning A-Z™ Course by Kirill Eremenko], and [Machine Learning Crash Course by Google]
- Kept up-to-date with the latest advancements in machine learning through self-study and following research papers and online resources
- Developed a strong understanding of deep learning concepts such as recurrent neural networks and convolutional neural networks
- Keywords: Deep learning and neural networks, TensorFlow framework, Python programming for deep learning

Skills and Interests

- **Machine Learning**: Solid foundation in mathematics, including multivariate calculus and probability theory. Research experience in deep learning, generative adversarial networks and TensorFlow.
- **Extensively Used**: C++, Python, TensorFlow, PyTorch, Keras, MXNet, HTML, CSS, Bootstrap, SQL, MongoDB, Git, GitHub, Java, C#, C, Matlab, Kotlin, Unity, Unreal Engine
- **Extra-curricular Interests**: Outdoor sports (esp. biking, soccer, running, swimming), Traveling, Cooking, Math brain-teasers and Algorithms, Board games
- **Languages**: Proficient in English and Arabic, Elementary level of French

Club Activities

Oct '20 – Oct '21

Eye On The Future_Live Your Dream - *Volunteer*

- Organized a classrooms across the country to help educate students about research in electrical and computer engineering