Feras-Ra'ed

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Research Interests

I'm interested in Machine and Deep Learning, Deep Neural Networks, Reinforcement Learning, Machine Learning on Graphs, Data Mining, and Programming Languages.

Skills Summary

- **Machine Learning**: Solid foundation in mathematics, including multivariate calculus and probability theory, necessary for understanding and developing machine learning models. Experience with popular machine learning frameworks and libraries, such as TensorFlow and PyTorch.
- **Software Engineering**: Proficient in developing web applications using front-end and back-end technologies. Experienced in working with HTML, CSS, JavaScript, and frameworks like React and Node.js. Familiar with database management systems such as MySQL and MongoDB.

Education

Feb '19 – Sep '22 | **Jordan University of Science and Technology JUST**

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

- Advisors: Ahmad Abu-El-Haija and Mansour Abbadi
- Honors: Walid A. Shahab Award. Rank 1 out of 90 engineering freshmen in EE320: Electronic Circuits Course (Summer 2020), National Scholarship (for top 2% of high schools)
- Relevant Courses: Linear Systems Theory, Random Signal Analysis, Digital Signal Processing, Digital Communications. Additional Courses at CS Department: Artificial Intelligence, Advanced Topics in Programming, Object-Oriented Software Analysis & Design

Sep '11 – Jun '16 | **Pioneer Educational High School for Science and Technology**

Pick Up the Best Student at High School

- GPA: 92.5/100, Rank: 1st
- Relevant Courses: Deep Classes in Mathematics, Physics, and Basics of Algorithms

Selected Experience

Sep '22 – Present | **Machine Learning Enthusiast**

Self-Study in Machine 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]
- Developed a strong understanding of deep learning concepts such as neural networks, convolutional neural networks
- Applied acquired knowledge to implement and experiment with various deep learning models using frameworks such as TensorFlow
- Kept up-to-date with the latest advancements in machine learning through self-study and following research papers and online resources
- Keywords: Deep learning and neural networks, TensorFlow framework, Python programming for deep learning

Honors & Awards

2021 | **EE Department of JUST** - *Walid A. Shahab Award. Rank 1 out of 90 Engineering Freshmen in EE320*

16 - 22 | **EE and ARCH Departments of JUST** - *National Scholarship (for top 2% of high schools)*

Presentations

Aug '22 | **Association of Arab Universities Webinar** - *participant for "Information Technology and the Future" [Slides]*

Other Information

- **Extensively Used**: C++, Python, TensorFlow, HTML, CSS, JavaScript, React.js, Bootstrap, jQuery, Node.js, Express.js, JSON, SQL, MongoDB, APIs, Web3, Blockchain, Motoko, Git, GitHub, Java, C#, C, Matlab, Android, 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

Teaching Experience

Nov '20 – Aug '21 | **Focus Academy –** *Tutor for Physics (PHY102)*

Club Activities & Volunteer Experience

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 and career options as a researcher