Faris M. Almalik

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Personal Profile

I am a postgraduate student in machine learning with an excellent understanding of the modern machine learning pipeline, eager to learn and contribute to machine learning applications that solve challenging problems in different fields and help society overcome challenges. I am also an innovative mechanical engineer with a proven track record in engineering design, advanced communication skills and teamworking abilities. I am looking to combine machine learning with mechanical engineering to overcome challenges which will facilitate the development of the world.

Education

2021 - Present: MSc in Machine Learning
Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi, United Arab Emirates
Full sponsorship, due to graduate in Jan 2023

2019: Academic IELTs Band 7, British Council, Sharjah, United Arab Emirates

2012 - 2017: University of Jordan, Jordan
Bachelor of Science in Mechanical Engineering
GPA 3.43/4.0 (Top 10% of 2017 graduating class)
Key subject areas:
- Mechanical Engineering
- Fundamentals of Programming
- CAD
- Mechanical Design
- Renewable Energy
- Entrepreneurship & Innovation
- HVAC
- Simulation

2012: High school Certificate (Average 97.3%)

Experience

March 2021 – Present: Vice President of MBZUAI Graduate Student Council.

Jan 2019 – Jan 2021: The Ministry of Education, United Arab Emirates
- Mathematics and physics teacher.
- Lead teacher assigned to lead four schools.
- Creative design and innovation teacher.
- CAD and 3D printing trainer.

Oct 2017 – Dec 2018: Production Engineer at KADDB, Jordan
- Preparing 3D designs and bill of materials.
- Preparing 2D drawings, assembly drawings, DXF files and route cards required for production.
- Material selection
- Reverse Engineering
- Assembly drawings
- SAP and ERP from procurement to final stage

Projects

(Ongoing project) Enhancing the Robustness of AI Models Against Adversarial Attacks

This ongoing project focus on security of the models and how to create a robust model that can perform well even under attacks. I am still working on this project

2021 Self-supervised Approach for Retinal OCT Scan Classification

Using self-supervised technique to improve the current state-of-the-art architectures to perform classification task on retinal OCT scans for patients. Accuracy of 96% were achieved in classifying OCT scan into Normal images or Drusen, DME or CNV diseases.

2021 Modeling Causal Relations and Counterfactual Inference

Implementing causal discovery algorithms to attain the causal graph to find the relations between covariates, treatment, and output. Moreover, causal inference was done to answer the following question: What will happen if different treatment was given. Causality is a very important concept and will help to interpret AI results.

2017 Graduation project for University of Jordan, Mechanical engineering department

Designing new system to increase the useful output power of wind turbine (INVELOX), this system aimed to make the air flow laminar and faster to ensure a smooth running of turbine blades with highest possible speed

Skills and Competencies

Technical: Python, PyTorch, TensorFlow, C++, MATLAB, ANSYS, Solid works, CAM, and Microsoft office.

Other skills: Emotional resilience, leadership, positive thinker, communication, Self-confident, teamwork, critical/logical & creative thinker, good listener, caring and compassionate, leadership, supervision.

Languages: English and Arabic, Excellent reading, writing and reading.

Achievements

2019 Mathematics department coordinator in MOE, UAE
2018 Solidworks professional user (CSWP) and Solidworks professional user – Sheetmetal (CSWPA)
2017 ranked top 10% among my colleagues in undergrad studies.
2014 Student council member at university of Jordan

Certificates

- July 2021: Deep learning specialization – Coursera
- July 2020: Introduction to AI – IBM
- July 2020: What is data science – IBM
- Nov 2018: Certified Solidworks Professional user (CSWPA) and Sheetmetal (CSWPA-SM)

References

Dr. Nasser Alhunaiti
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Deputy Dean, Deanship of research
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Dr. Karthik Nandakumar
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