

Ahmed Radwan

Computer Science

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PROFILE

As a Computer Science student, I possess expertise in programming languages such as Python and a deep understanding of machine learning, deep learning concepts and techniques through my coursework and extracurricular activities. I am eager to continue learning and growing both academically and professionally.

EDUCATION

Computer Science 2019 – present
King Abdulaziz University
4.99 GPA

WORK EXPERIENCE

Junior Technology 12/2023 – present
KAUST Academy

- Enabling access to AI models for individuals without a background in AI.
- Creating interactive notebooks for hands-on learning and experimentation.
- Launching demo applications on Huggingface to showcase AI capabilities.
- Organizing competitions and hackathons to encourage active participation and innovation.

Researcher 09/2023 – Present
Asas.ai

- Developing Applications Utilizing Large Language Models, and Improving Arabic Language Representation.

Head of AI Unit 09/2023 – Present
Drone and Robotics Aziz Group at KAU

- Manage a team of 50 members, overseeing their development and preparing them for participation in hackathons.
- Teaching Introduction to AI, Computer Vision, and TinyML bootcamps.
- Part of the AI team participating in the SUAS 2024 Competition.

Artificial Intelligence Intern 07/2023 – 08/2023
KAUST Thuwal, Saudi Arabia

- Auto Encoders, Variationally Autoencoders (VAEs), and Generative Adversarial Networks (GANs).
- Explored models, optimal policies, and Bellman's theory.
- Combine GNNs with Recurrent Neural Networks (RNNs) to create Graph Recurrent Neural Networks (GRNNs).
- Discover sophisticated models like R-CNN, Faster RCNN, and YOLO for object detection and localization.
- NLP project development and exploring optimization techniques.

Teaching Assistant 03/2023 – 11/2023
KAUST Academy Thuwal, Saudi Arabia

- Introduction to Artificial Intelligence Course.
- Advanced Artificial Intelligence Course.

PROJECTS

SARD: Image-Inspired Narratives

Developed a drag-and-drop system to help the writers. Utilized LLMs to produce a coherent story using Images and Relations.

Addressing Bias Through Ensemble Learning and Regularized Fine-Tuning

Enhancing model Performance with Regularized Fine-Tuning and Ensemble Learning for Improved Accuracy using small datasets.

Compact Multimodal Threat Detection System

Developing a compact Multimodal for cyclists that uses audio-visual data to detect road threats, efficiently running on Arduino for real-time alerts.

Skin Cancer Image classification

Developed a model for image classification using data loading techniques and Convolutional Neural Network using Keras.

PERSONAL DEVELOPMENT

TinyML Course

Kaust

Exploring various methods for AI model compression, such as quantization and low-rank factorization, leveraging MQTT for efficient communication. Developing AI models suitable for Arduino devices and utilizing this expertise to construct a refined, quantized multimodal system.

Mathematics for Machine Learning and Data Science Specialization

DeepLearning.AI

Completed an intensive course in Mathematics, Linear Algebra, and Statistics, tailored to machine learning. Gained advanced statistical skills and key competencies for data analysis, technical interviews, and career growth in machine learning.

Machine Learning Specialization

DeepLearning.AI

Expert in supervised learning, unsupervised learning, and reinforcement learning implemented using Keras.

Programming jam 8.0/6.0

ACM

Using algorithms and different techniques in competitive programming to achieve an optimal solution.

Introduction & Advanced Artificial Intelligence Courses

Kaust

Completed an intensive 80-hour in-person bootcamps covering foundational mathematics, linear algebra, and advanced machine learning techniques, including supervised, unsupervised learning, and deep learning.

TECHNICAL SKILLS

Data science and AI libraries

Python, Pandas, Sklearn, Pytorch, TensorFlow, and Keras

Artificial Intelligence

Machine Learning, Deep Learning, Computer Vision, NLP, CNN, RNN, Transformers, GANs, Diffusion models, LLM, HuggingFace.

LANGUAGES

English

IELTS 7.5/9.

Arabic

Native.