

Esraa Mosaad Abdelrazek

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EDUCATION

Cairo University, Doki

Jan 2019 - Aug 2023

Bachelor of Computer Science and Artificial Intelligence, Artificial Intelligence, 3.11

- Built a strong foundation in computer science through core coursework during the first two years.
- Transferred to the Artificial Intelligence department in the third year, focusing on advanced AI subjects like Machine Learning to deepen expertise in the field.
- Graduated with an excellent grade on the final project, showcasing the ability to apply AI concepts to job recommendation systems.

WORK EXPERIENCE

The American University in Cairo, Smart Village

Sep 2023 - May 2024

Specialized training in Digital IC Design and Verification

- Completed practical training to gain proficiency in the fundamentals of analog and digital circuits and VLSI
- Designed, implemented, and analyzed circuits using Cadence software, gaining a deep understanding of circuit components and their interactions.
- Used Quartus software to write Verilog HDL code, creating complex digital circuits and systems.
- Implemented transistors with Tanner software, exploring their behavior and characteristics in circuit design.
- Effectively managed time during the project, allocating sufficient time for design, testing, and optimization phases to meet project deadlines.

ASDC, Remote

Nov 2023 - Dec 2023

AI Intern Position

- Analyzed customer groups using AI techniques to enhance market strategies, leveraging advanced data analysis and machine learning algorithms.
- Developed expertise in GPU-accelerated tasks, optimizing data processing efficiency and improving performance with large datasets.
- Successfully implemented YOLOv8, gaining practical experience in segmentation techniques and object detection.
- Acquired skills in efficiently handling large images for model optimization, ensuring optimal performance in object detection tasks.

TechnoHacks EduTech, Remote

Nov 2023 - Nov 2023

Machine Learning Internship Program

- Utilized a comprehensive medical dataset to develop a predictive model aimed at determining whether a person has diabetes or not
- Developed a model that effectively identified and flagged potential fraudulent activities, contributing to the prevention of financial loss
- Leveraged the CIFAR-10 dataset to create a powerful image classification model capable of accurately classifying images into ten distinct categories.

- Acquired proficiency in handling and preparing data for machine learning models
- Utilized multiple datasets, including COVID-19, Iris, MNIST, CIFAR-10, Boston Housing, Breast Cancer, and Fashion datasets
- Explored a wide range of machine learning models, such as Naive Bayes, K-Means, K-Nearest Neighbors (KNN), Support Vector Machines (SVM), Decision Tree Classifier, Neural Networks (NN), Convolutional Neural Networks (CNN), VGG16, AlexNet, LeNet-5, and Recurrent Neural Networks (RNN)
- Engaged in a group project where we collaboratively selected a topic and conducted research.
- Prepared and delivered a presentation in front of our instructor and classmates.
- Enhanced communication abilities through effective teamwork and coordination within the group.

PROJECTS & EXTRACURRICULAR

Graduation project

Sep 2022 - Jul 2023

[GP_Job-Recommendation-and-Filtering_doc](#)

- Collaboratively developed a job recommendation and filtering system using machine learning techniques.
- Responsibilities included designing machine learning models, implementing data filtering techniques, and creating a user-friendly website to showcase the system.
- Demonstrated leadership, teamwork, decision-making, problem-solving, and time management skills while working on a collaborative project with a multidisciplinary team. As a team leader, I facilitated effective communication, delegated tasks, and ensured project milestones were met within the given time frame.

Student Activity

Jan 2020 - Apr 2023

- Actively contributed as a member of the Family 180 committee, specializing in video production.
- Showcased creativity and expertise by producing captivating short educational animation videos for the Family 180 YouTube page.
- Contributed to the advancement of students' knowledge by providing valuable assistance in teaching C++ courses.
- Played an integral role in the success of the New Stage event, fostering a sense of community and camaraderie

SKILLS

Programming languages: Python, C++

Computer software/ frameworks:

Computer Vision, Object Detection, Image Segmentation, TensorFlow, pandas,

Signal Processing, Natural Language Processing (NLP), OOP, Data Structural