

# Esraa Mosaad Abdelrazek

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## EDUCATION

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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

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Digital Egypt Pioneers Initiative - DEPI, Cairo

Apr 2024- Sep 2024

*IBM Data Scientist*

- Gained hands-on experience with essential tools such as Python, SQL, and libraries like Pandas and NumPy for data analysis.
- Created data visualizations with Python libraries such as Matplotlib and Seaborn to present insights.
- Learned MLOps tools like MLflow and Hugging Face to manage machine learning lifecycle and model deployment.
- Completed a capstone project involving data collection, wrangling, exploratory analysis, and model evaluation to solve real-world problems.

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.

*AI Intern*

- 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

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**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

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**Programming languages:** Python, C++**Computer software/ frameworks:**

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

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