

YOUSIF EDRIS LOTFY

Data Science and Artificial Intelligence Student

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SUMMARY

I am a motivated Data Science and Artificial Intelligence student at the Faculty of Computers and Artificial Intelligence, Cairo University. I leverage my technical knowledge and problem-solving skills in machine learning, data analysis, and AI research. Eager to contribute to innovative projects, I seek hands-on experience developing impactful AI solutions, demonstrated through my participation in workshops and projects

EXPERIENCE

Volunteer Content Creator & Workshop Facilitator

Minders Student Activity

📅 03/2025 - Till Now

Student organization focused on enhancing educational experiences through workshops and peer-to-peer learning

- Created a comprehensive Statistics 2 summary to support university-level learning and peer education
- Organized and conducted an AI Workshop, introducing foundational AI concepts and real-world applications
- Delivered a hands-on C++ Object-Oriented Programming (OOP) workshop, focusing on classes, inheritance, and encapsulation
- Led a C++ Data Structures workshop, covering key topics such as arrays, linked lists, stacks, queues, and trees

Volunteer Deep Learning Instructor

Developer Student Club DSC

📅 04/2025 - Till Now

Student club focused on promoting knowledge and skills in technology and programming

- Created and delivered comprehensive workshops on deep learning concepts like DNN, CNN, Transformers
- Guided students through practical AI projects involving real-world applications
- Developed hands-on coding sessions to reinforce theoretical concepts and promote skill-building
- Fostered an engaging learning environment to support peer education and community growth in AI/ML

Participant

Egyptian Collegiate Programming Contest ECPC

📅 07/2024 - 07/2024

National-level programming competition for university students

- Competed in a national-level programming contest that tested proficiency in algorithms, data structures, and problem-solving
- Solved complex coding problems under time constraints, demonstrating strong analytical and teamwork skills
- Gained hands-on experience with advanced competitive programming techniques and collaborative problem-solving in high-pressure scenarios

STRENGTHS



Problem-solving and Critical Thinking

Problem-solving and critical thinking skills demonstrated through competitive programming and project work



Team Collaboration and Communication

Ability to collaborate and communicate effectively in workshops and team projects



Project Planning and Execution

Experience in planning and executing projects within education and student activities



Communication and Presentation Skills

Skilled in teaching complex topics in a clear and accessible manner



Powerful Teaching and Mentoring Skills

Strong mentoring capabilities, particularly in technology-related subjects

KEY ACHIEVEMENTS



Soft Drink Image Classification Project

Achieved 96% accuracy on the test dataset for a Soft Drink Image Classification project using YOLO and CNN, demonstrating strong skills in data collection, model building, and performance evaluation

EDUCATION

Bachelor of Computer Science and Artificial Intelligence
Faculty of Computers and Artificial Intelligence, Cairo University
09/2023 Cairo, Egypt
(Expected Graduation:2027)

TRAINING / COURSES

DotPy Data Science and AI Course (December 2024 - May 2025) Comprehensive 75 hours training in data science, artificial intelligence, and machine learning concepts. Covers advanced Python programming, data visualization, and predictive modeling. Deep learning algorithms like DNN, CNN, Transfer Learning, Deployment, Object Detection	Data Analysis and Machine Learning Workshop Google Developer Student Club CU-FCAI (April 2024 - July 2024) Completed a 3-month program covering data analysis, machine learning algorithms, and real-world applications using tools such as Python, Pandas, NumPy, and scikit-learn
Supervised Learning with scikit-learn DataCamp (January 2025) Gained hands-on experience in building and evaluating predictive models using scikit-learn. Learned techniques including linear regression, logistic regression, k-NN, decision trees, and model tuning	Introduction to Deep Learning with Keras DataCamp (May 2025) Gained hands-on experience building and training neural networks using Keras and TensorFlow. Learned key concepts including activation functions, loss functions, and model evaluation
Data Analyst in Python - DataCamp (February 2025) Completed a 36-hour professional career track focused on data analysis using Python. Gained experience with data manipulation, cleaning, and visualization	

SKILLS

Arduino	C/C++	Data Structures	
DCS	Deep Learning	Java	
Jupyter	Jupyter Notebook	Keras	
Linear Regression	Matplotlib		
Numpy	OOP	OpenCV	Pandas
Python	Robotics	Scikit-Learn	
Seaborn	SQL	TensorFlow	
Gmail			

PROJECTS

Soft Drink Image Classification using YOLO & CNN 05/2025 A project focusing on implementing an image classification model for soft drinks utilizing advanced AI techniques <ul style="list-style-type: none">Collected and organized a custom dataset of over 5,500 images across 13 soft drink classesUtilized YOLOv8 for object detection to accurately locate and extract drink cans from imagesBuilt and fine-tuned a Convolutional Neural Network (CNN) to classify the detected drinksDocumented the full pipeline in a Jupyter Notebook and deployed the final model in a Python application for real-time detection and classification
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