Ahmed Cherik

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Kaggle: kaggle.com/ahmedcherik

Professional Summary

Motivated and analytical AI graduate with a strong foundation in data science, machine learning, and software development. Skilled in transforming complex datasets into actionable insights and intelligent systems. Developed EAGLE, a novel AI-based energy-efficient routing protocol for Wireless Sensor Networks (WSNs), by integrating Genetic Algorithms and Q-Learning. Passionate about leveraging data to solve real-world problems in sustainability, healthcare, and global resource optimization.

Achievements

- Ranked Major of Promotion in Master 2 Artificial Intelligence - 2025
- Designed the EAGLE protocol - a hybrid solution for WSNs using Genetic Algorithms and Q-Learning
- Earned the Google Data Analytics Certificate and Google AI Essentials Certificate
- Developed several end-to-end machine learning projects focused on computer vision and data analysis

Education

Master's in Artificial Intelligence

Université Akli Mohand Oulhadj (AMO), Bouira | 2023 - 2025

- Graduated as Major of Promotion
- Thesis: Hybrid AI-Based Protocol for Energy-Efficient Routing in WSNs Using GA and Q-Learning (EAGLE)

Bachelor's in Computer Science

Université Akli Mohand Oulhadj (AMO), Bouira | 2020 - 2023

Projects & Experience

EAGLE Protocol - AI for Energy-Efficient Routing in WSNs

- Developed a hybrid routing protocol combining Genetic Algorithms and Q-Learning
- Improved energy consumption and network lifetime through AI-based optimization

- Tools: Python, Network Simulation, Scikit-learn, NumPy, Pandas

Image Segmentation using U-Net

- Applied deep learning for semantic segmentation of medical images
- Evaluated with Dice coefficient and IoU
- Tools: TensorFlow, Keras

Image Classification with Keras

- Built and trained CNNs for classifying datasets (e.g., CIFAR-10, medical datasets)
- Used data augmentation and dropout for regularization
- Tools: TensorFlow, Keras, Google Colab

Object Detection with YOLO

- Implemented YOLOv5 for real-time object detection on custom annotated datasets
- Trained models and analyzed precision, recall, and mAP

Google Data Analytics Capstone

- Performed exploratory and statistical analysis on real-world datasets
- Created dashboards using Tableau and Google Sheets
- Tools: R, SQL, Excel, Tableau

Technical Skills

Languages & Libraries: Python, R, SQL, Pandas, NumPy, Matplotlib

Machine Learning & AI: Scikit-learn, CNNs, U-Net, YOLO, Genetic Algorithms, Q-Learning

Deep Learning Frameworks: TensorFlow, Keras

Visualization Tools: Tableau, Excel

Development & Tools: Git, Jupyter, Google Colab

Others: HTML, CSS, JavaScript, OpenCV, MySQL

Languages: Arabic (native), English (advanced), French (advanced), Spanish (beginner)

Certifications

Google Data Analytics Certificate - Coursera

Google AI Essentials Certificate - Coursera

Interests

- Artificial Intelligence for Sustainability - exploring AI solutions for energy, agriculture, and climate
- Data Visualization & Storytelling - creating intuitive dashboards and visual narratives
- Startup & Innovation Culture - following AI-driven startups and entrepreneurial ventures