Charbel LEBBOUS

AI & ML Developer

CONTACT

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📍 Bourj Hammoud, Lebanon

in LinkedIn

LANGUAGES

English	Fluent
French	Fluent - DELF B2
Arabic	Native
Chinese	Beginner

AI & Machine Learning Skills

Programming & Frameworks
Python · TensorFlow · PyTorch · Keras · Scikit-learn · C · C++ · Git · Jupyter · VS Code

Deep Learning & Computer Vision
CNNs · RNNs · Transformers · GANs · YOLO · OpenCV · Transfer Learning · Feature Extraction

Reinforcement Learning
DQN · PPO · SAC · OpenAI Gym · Unity ML-Agents · Stable Baselines

Natural Language Processing
Hugging Face · GPT · spaCy · NLTK

Data Science & Visualization
Pandas · NumPy · Matplotlib

Big Data & Databases
SQL · MongoDB · Oracle

Tools & Cloud
Linux · Power Automate · Google APIs

INTRESTS

➢ Financial Markets & Quantitative Investing

➢ Startups & Disruptive Innovation

➢ Robotics and Human-AI Collaboration

➢ Behavioral Psychology in Decision-Making

PROFILE

Motivated AI/ML developer with a Master's in Machine Learning from the Lebanese University. Strong hands-on experience in deep learning, reinforcement learning, computer vision, and NLP. Proven ability to apply AI to real-world challenges, including 3D reconstruction, generative models, financial analysis tools, and startup-focused AI solutions. Passionate about building intelligent systems that bridge AI research and practical deployment.

PROFESSIONAL EXPERIENCES

3D Object Reconstruction from Single-View Images Using DRL and Computer Vision

Lebanese University, Lebanon | 2024

- Developed a 3D object reconstruction pipeline using **Deep Reinforcement Learning**
- Trained custom computer vision models on synthetic and real-world datasets
- Applied **CNNs** and **policy gradient algorithms** in simulated 3D environments
- Wrote thesis and presented results in a university defense setting

Artificial Intelligence Expert

Digilab Solutions, Lebanon | 2023

- Built an AI-powered chatbot platform similar to ChatGPT using **OpenAI API + FlutterFlow**
- Integrated **Microsoft SharePoint** with GPT via **Power Automate**
- Conducted system tests, usability analysis, and reporting for clients
- Delivered a prototype for enterprise knowledge management automation

AI System Developer (Remote + Robotics Integration)

IEA Coder Maker, Lebanon | 2021

- Created modular algorithms for intelligent vehicle simulation using **ROS2 + Gazebo**
- Focused on AI-related modeling and behavior logic (abstracted from hardware detail)
- Documented algorithms and system behaviors used in AI-assisted simulations

EDUCATIONAL EXPERIENCE

Master M2 Machine Learning
Lebanese University, Hadath | 2023-2024

Master M1 Computer Science
Lebanese University, Fanar | 2022-2023

Bachelor's degree in Computer Science
Lebanese University, Fanar | 2019-2022

PROJECT HIGHLIGHTS

- Face **Recognition Access Control System** using Raspberry Pi & Python
- **Text Classification with Transformers** for customer feedback analysis
- **Unity + DRL for Maze Navigation** using PPO and DQN
- **GPT-Based Automation Bot** integrating OpenAI and Microsoft stack tools
- **Personal Investment Dashboard** built with Streamlit & Python to track crypto, US stocks, gold, and startup investments