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EDUCATION

Lebanese American University (LAU, Beirut, Lebanon, Graduated in June 2025)
Bachelor of Science in Computer Science (Full USAID Scholarship)

INTERNSHIPS/TRAININGS

ZAKA, Beirut, Lebanon (Machine Learning Specialization, May 2025-September 2025)

- Completed a 20-week Machine Learning Specialization program focused on AI and ML applications.
- Gained strong foundations in **Data Science principles** (data preprocessing, feature engineering, exploratory data analysis).
- Applied **Machine Learning algorithms**, including regression, classification, clustering, and ensemble methods.
- Developed expertise in **Computer Vision** techniques such as image classification, object detection, and transfer learning.
- Improving **Deep Neural Networks**: Hyperparameter Tuning, Regularization, and Optimization.
- Explored **Natural Language Processing (NLP)**, including text classification, sentiment analysis, sequence models, and chatbots.
- Acquired hands-on experience with **Large Language Models (LLMs)** and Transformers for advanced AI applications.
- Learned to deploy AI/ML solutions in production and research environments, ensuring scalability and performance.

ZAKA, Beirut, Lebanon (NLP and ML Internship, September 2025-November 2025)

- Designed and developed an AI-powered career guidance system to recommend suitable academic majors using a **Random Forest model**.
- Implemented a **RAG-based chatbot** utilizing **Weaviate** for vector storage and LLMs to deliver context-aware answers to answer the students' common questions about majors and careers.
- Hosted and deployed the project on **AWS**, leveraging cloud-native services and Docker for scalability, reliability, and cost efficiency.

PROJECTS

Predict OCEAN Personality Traits and Emotions of Candidates (Computer Vision):

Implemented an AI product to assist HR teams during job interviews, generating reports of candidates' personality traits (Openness, Conscientiousness, Extraversion, Agreeableness, Neuroticism) and emotions at specific moments to support informed hiring decisions. Utilized Python, TensorFlow/Keras, OpenCV, DeepFace, Flask, and built CNN and LSTM models for feature extraction and prediction.

Money Detector and classifier (Computer Vision):

Developed a computer vision system to detect and classify Chinese and Japanese currency using **YOLOv8**. Built and annotated a custom dataset, applied data augmentation, and trained the model for real-time detection. Deployed the system with **Flask** and **Docker**, hosted on **Render**.

Another project:

Machine Learning Solution for Breast Cancer Diagnosis and Staging, Next-word prediction model using NLP, End-to-End Neural Network Model for English to French Translation. Building Domain-Specific Medical LLM Using **LoRA** Training, Predicting Smoking Status from Health Insurance Data Using Machine Learning.

Courses and Certificates

- Convolutional Neural Networks (Coursera, DeepLearn.AI)
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization (Coursera, DeepLearn.AI)
- Structuring Machine Learning Projects (Coursera, DeepLearn.AI)
- Sequence Models (Coursera, DeepLearn.AI)
- AWS Certified Cloud Practitioner CLF02

KEY SKILLS

- Programming languages: Python, Java, C, SQL, HTML, PHP, JavaScript, CSS.
- Frameworks and Libraries: Django Ninja, PostgreSQL, Scikit-learn, Keras, Pandas, NumPy, TensorFlow, Pytorch, spaCy, OpenCV, Weaviate, Android SDK.
- Data Science: Data Preprocessing, Munging, Exploratory Data Analysis (EDA), Data Visualization, Data Cleaning, Data Manipulation, Feature Engineering.
- Machine Learning: Model Training (supervised and unsupervised Learning models), Text Vectorization, Class Imbalance Handling.
- Computer Vision specific: CNN, LSTM, YOLOv8, DeepFace, Transfer Learning.
- Deployment / Cloud: Flask, Docker, AWS, Render.
- NLP: RAG, Lang Chain, Lang Smith, LLM, Embeddings, HuggingFace, LORA.
- Database Management: SQL, MySQL, Oracle, CRUD Operations, Schema Design.
- Tools and Platforms: GitHub, Power BI.