

ABBASS ZAHREDDINE AI Engineer | Machine Learning

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Experience

Machine Learning Intern, Proceedit Company <ul style="list-style-type: none">Designed and trained LSTM models to forecast stock prices, improving accuracy by 12-15% over baseline models.Built and optimized prediction & correction pipelines, reducing errors by 20%Applied data preprocessing, feature engineering, and benchmarking	06/2025 – Present Spain
Internship, HomeSat Company <ul style="list-style-type: none">Developed a mobile software for Protocol Television (IPTV) systemCombined existing channel broadcasting and video-on-demand (VOD) services	08/2023 – 09/2023 Beirut

Projects

Fine-tuned GPT-2 for Poem Generation <ul style="list-style-type: none">Implemented a text-generation pipeline using Hugging Face's Transformers library.Fine-tuned GPT-2 on a custom poetry dataset using Hugging Face Transformers, improving coherence
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Stock Price Prediction Engine (LSTM & MLP) Python <ul style="list-style-type: none">Built a time-series prediction engine using LSTM and MLP, improving forecasting accuracy by 15%Applied robust preprocessing to prevent data leakage and ensure reliable time-series modelingIntegrated early stopping, L₂ regularization, and K-fold cross-validation, boosting model generalization.Tuned hyperparameters and documented optimal configurations for reproducibility.
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YOLOv8 Object Detection for Aerial Images Python <ul style="list-style-type: none">Trained YOLOv8 on unified aerial datasets, achieving mAP50 = 0.82 with strong generalization..Implemented Eigen-CAM for explainability, visualizing model decision-making.

ML Projects & Implementations <ul style="list-style-type: none">Implemented supervised, unsupervised, and advanced ML algorithms (SVM, K-Means, Neural Nets).Demonstrated skills in data preprocessing, model evaluation, and algorithm selection.Benchmarked models for accuracy, precision, recall, and scalability across datasets.

Flask Music Web Application <ul style="list-style-type: none">Developed a dynamic web app with Flask, implementing routing, templates, and backend logic.Delivered an interactive music playback and playlist management system.
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Education

Computer Engineering and Technology, Al Maaref University Degree: Computer Engineering and Technology <ul style="list-style-type: none">Attached to MU Honor List (2020-2023)	09/2019 – 06/2025 Beirut, Lebanon
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Certificates

Hugging Face LLM Course LLM Course , Generative AI	DeepLearning.AI by Andrew Ng Machine Learning Specialization	UCSan Diego University Algorithmic Toolbox, Coursera provided
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Skills

Technical Skills (GitHub Python Java C PyTorch TensorFlow Jupyter Notebook Flask PostgreSQL. OpenCV Pillow GitHub Microsoft Office)

Machine Learning & Algorithms (Neural Networks. Reinforcement Learning Time-Series Forecasting Computer Vision Advanced Algorithms Optimization Generative AI)