Ali Youssef

Machine Learning Engineer

I am a passionate Machine Learning Engineer with a strong foundation in Mechanical Engineering and experience in sales, site, and maintenance engineering. My expertise lies in developing and deploying AI models, with a focus on creating innovative solutions that integrate AI with sustainable technologies. I am excited to contribute to the integration of AI and engineering. Being a part of this change is essential to lesser the gap between conventional science and newer technologies.

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WORK EXPERIENCE

Machine Learning Engineer-Intern
Nugenesis

11/2023 - 07/2025   *Australia (Remote)*

Achievements/Tasks
- Developed and fine-tuned an LLM model for extracting meeting details from email messages.
- Deployed models using Gradio app and Flask, improving user accessibility and integration with web applications.
- Implemented an API to integrate the model with third-party applications, enhancing functionality across platforms.

Machine Learning Engineer-Intern
ENKRYPT Pty Ltd

08/2023 - 02/2024   *Australia (Remote)*

Achievements/Tasks
- Created an innovative document chatbot leveraging open-source LLMs, enabling real-time, context-aware interactions with users.
- Developed a generative AI model tailored to assist students in mastering math concepts.
- Implemented a model for image safety checks, utilizing computer vision techniques to ensure compliance with content safety standards, reducing the risk of inappropriate content by 99%.
- Helped improve the company's AI capabilities by developing and introducing new AI models.

Machine Learning Engineer-Student
Zaka

01/2023 - 05/2023   *Lebanon (Remote)*

Achievements/Tasks
- Successfully completed a comprehensive 16-week Machine Learning Specialization program, gaining in-depth knowledge in Data Science, Machine Learning algorithms, Deep Learning, Computer Vision, Natural Language Processing, ML in Production, and ML in Research.
- Conducted extensive data collection and pre-processing tasks, ensuring data quality for machine learning model training.
- Applied advanced statistical methods and data visualization techniques to reveal patterns, trends, and correlations in large datasets.
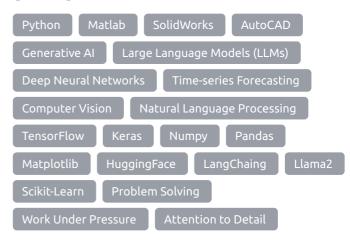
EDUCATION

Masters of Science in Mechanical Engineering
Lebanese International University

2012 - 2017   *Lebanon*

SKILLS

Python   Matlab   SolidWorks   AutoCAD
Generative AI   Large Language Models (LLMs)
Deep Neural Networks   Time-series Forecasting
Computer Vision   Natural Language Processing
TensorFlow   Keras   Numpy   Pandas
Matplotlib   HuggingFace   LangChaing   Llama2
Scikit-Learn   Problem Solving
Work Under Pressure   Attention to Detail

PERSONAL PROJECTS

AI Cryptocurrency Price Prediction (02/2024 - Present)
- Developing a new price prediction model for Solana cryptocurrency that predicts the next close price based on statistical and feature engineered data.
- Achieving an error less than 0.3% while maintaining a 95% accuracy for the next price if it is increasing or decreasing.

Global Temperature Prediction (04/2023 - 05/2023)
- Created a Deep Learning model that predicts the global temperature increase by the year 2050. The model specifically shows the impact of the electricity production of fissile fuel and how clean energy can solve this increase in the temperature.
- Achieved an error less than 0.5% while having a result that aligns with other scientific and simulation research.

CERTIFICATES

Machine Learning Specialization (05/2023 - Present)
Zaka

Introduction to Generative AI with Google Cloud (05/2023 - Present)
Udacity

LANGUAGES

Engish
Full Professional Proficiency

Arabic
Native or Bilingual Proficiency

HOBBIES

Ping Pong   Hiking   Travelling