Nour Berakdar

Artificial Intelligence Engineer

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Profile

AI Engineer with expertise in machine learning, deep learning, data analysis, and backend development. Proven experience in AI strategy, automation, and data-driven solutions across diverse sectors, including policy, healthcare, and finance. Skilled in Python, NLP, LLMs, AI-powered automation, and advanced data analysis techniques. Strong background in database management, optimization, and backend development using Go-lang (Revel), PostgreSQL, Django, and FastAPI. Passionate about leveraging AI to drive innovation and enhance efficiency in real-world applications.

Work Experience

May 2024 – present

Freelance, *AI Engineer | Data Scientist*

- Applied AI strategies and developed use cases in policy, municipality, and healthcare in the UAE, conducting research, prototyping, and AI training to drive innovation.
- Built Python-powered automation for Excel data management in Saudi Arabia's communications sector, optimizing efficiency and accuracy.
- Developed object detection models using COCO JSON, managing data preprocessing, training, and validation for high-accuracy recognition

Jul 2024 – Dec 2024
Syria

AppsNmore, *AI Engineer | Backend Developer*

- Maintained and enhanced an E-payment system built with Go-lang (Revel framework) and PostgreSQL, focusing on large-scale data handling, query optimization, and resolving critical system issues.
- Developed and managed a communication system integrated with a CRM, leveraging Django and MySQL.
- Optimized database queries and oversaw payment-related operations to improve efficiency.

Nov 2022 – Jul 2023

GDSC Damanhour University, *Deep Learning Intern*

- Completed deep learning training and applied advanced techniques to Kaggle tasks.
- Focused on computer vision using Convolutional Neural Networks (CNN) for visual data analysis.
- Proficiently manipulated data with Pandas for effective analysis.
- Implemented NLP methods for various language-based tasks.

Jan 2022 – Oct 2022
Jordan

SHAI For AI, *Artificial Intelligence Engineer Intern*

- Received intensive training in data analysis, machine learning, deep learning, and NLP.
- Proficient in using pandas and numpy for exploratory data analysis (EDA) to derive actionable insights.
- Developed machine learning models for credit card fraud detection, utilizing techniques like PCA and K-Means.
- Created deep learning models for COVID-19 detection using ANN and CNN.
- Completed sentiment analysis projects, covering the entire pipeline from data cleaning to model development.

Education

2017 – 2023
Damascus, Syria

Artificial Intelligence Engineer, *Faculty of Information Technology Engineering*

Skills

Machine Learning • Python • Data Analysis • ETL processes • PostgreSQL • MySQL • Docker • NLP • Deep Learning • Computer Algorithm • C++ • Java • Problem Solving • Design Pattern • OOP • Version Control • FastAPI • TensorFlow • Scikit-learn • Linux • NumPy • Pandas • Matplotlib • Microsoft Power BI • AI Strategy • LLM • RAG

Projects

Sep 2024

Electronic Sales Analysis in the U.S. (2019)

- Analyzed four months of sales data for 19 electronic products, revealing total sales of $5.51M and 29,020 orders. Identified key sales trends, with peak sales in April, and determined top-demand cities, including San Francisco (37.61%) and New York City (25.29%).
- Conducted data preprocessing to clean null values, unify product names, and derive geographic insights, utilizing DAX for in-depth analysis.

Oct 2022 – Aug 2023

Doctor Shank:, *Graduation Project*

- It's a neurological medical app that contains three key components: predicting neurological diseases through diagnostic questions, assessing patient mental status using standardized questions, and analyzing patient movement to predict neurological conditions.
- Achieved by Flutter, FastAPI, and AI models to enhance app functionality and diagnostic accuracy.

Dec 2022

Arabic News Summarization:

- Developed an Arabic News Summarization system that condenses articles and news texts into essential points and headlines, enhancing information accessibility and comprehension.
- The system employs Extractive summarization techniques such as the Graph-Based approach, TF-IDF, and K-means algorithms to efficiently summarize large volumes of text while maintaining accuracy and relevance.

2022

Fake News Detection:

- Employed Deep Learning models (Simple RNN, LSTM, GRU) to analyze news articles and identify fake news, enhancing content credibility and accuracy.
- The project aimed to distinguish between fabricated stories and partially accurate information, mitigating the spread of misleading content and promoting reliability in information sources.

2021

Smart Attendance System :

- Developed an efficient attendance tracking system that identifies absenteeism during office hours.
- Utilized facial recognition technology to analyze employee expressions and reactions, enhancing workplace monitoring and engagement.

Languages

Arabic **English**