MOHAMMAD OBEIDAT

Data Scientist | Machine Learning Engineer

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Summary

As an experienced data scientist, I specialize in developing and deploying machine learning solutions across diverse industries. Proficient in Python, I analyze data, build predictive models, and deliver actionable insights to optimize business operations. I excel in collaborating with cross-functional teams to drive strategic decision-making and foster business growth through data-driven approaches. Passionate about leveraging data to create tangible impact, I am committed to driving continuous improvement and organizational success.

Experience

Data Science Trainer

Aug 2023 - Jan 2024

London International Science and Research Center, Dubai

- Developed and delivered a curriculum covering theory and practical applications in machine learning and data science, enhancing students' understanding of data processing, supervised learning, clustering algorithms, and deep learning.
- Guided students in executing practical projects to reinforce theoretical concepts and apply knowledge to real-life scenarios, fostering deeper understanding and confidence.
- Collaborated with the development team to enhance the learning platform, improving student engagement and overall learning experiences.

Freelance Data Scientist

Jun 2022 - Present

Freelance

- Collaborated with clients to develop customized machine learning solutions, effectively tackling diverse challenges across multiple sectors.
- Designed and implemented a machine learning algorithm to forecast greyhound race outcomes, surpassing the initial accuracy target of 50% with a notable 65% accuracy using a random forest model.
- Collaborated with an experienced trader to create an advanced deep learning model for pair trading strategies, achieving an impressive 21% annual profit margin.

Data Scientist

Jul 2020 - Dec 2020

SWFTBOX, Dubai

- Developed predictive models that improved delivery efficiency by 20% through analyzing historical data and optimizing delivery routes.
- Designed and implemented data pipelines to automate data collection, processing, and analysis, reducing manual data handling by 50%.
- Collaborated with cross-functional teams to identify key business metrics and create interactive dashboards, leading to data-driven decision-making and a 15% increase in customer satisfaction.

Creative Design Teacher

Nov 2018 - Aug 2023

Ministry of Education, Abu Dhabi

- Designed and implemented hands-on projects and lab activities to strengthen theoretical comprehension and enhance practical skills, fostering an interactive learning environment that promotes student success.

Projects

Predicting Stock Price Movements

- Implemented a machine learning model to predict stock price movements n-days in advance, leveraging balance sheet data and fundamental ratios for multiple stocks.
- Expanded feature set by incorporating price data to construct technical indicators and trading signals, enhancing predictive accuracy.
- Achieved a profit ratio exceeding that of the buy-and-hold strategy by 3%, demonstrating the effectiveness of the developed predictive model.

Fashion Articles Recommender System

- I combined collaborative filtering and content-based filtering methodologies to create a clothing articles recommender system.
- Utilizing diverse datasets such as article descriptions, features, and images, I generated multiple sets of customer and item embeddings to enhance accuracy.
- I developed a web application using Python and Streamlit to present and demonstrate the effectiveness of the recommender system's results.

Cryptocurrency Trading Bot

- Developed a cryptocurrency trading bot utilizing Python and the FreqTrade toolbox, tailored to execute trades according to a sophisticated strategy.
- Integrated a machine learning model within the trading strategy to generate precise trading signals, leveraging a dataset amalgamating fundamental and technical data of stocks.
- Successfully trained the machine learning model, enabling the trading bot to make informed decisions and execute profitable trades in the cryptocurrency market.

Education

B.Sc in Electrical Engineering
2013 - 2018

Jordan University of Science and Technology

Courses

- Machine Learning Engineering for Production Specialization
- Recommendation Systems with TensorFlow on GCP
- Machine Learning for Trading Specialization
- Natural Language Processing Specialization

Skills

- Python
- Java
- SQL
- JavaScript
- CSS
- HTML

- TensorFlow
- Keras
- Pandas
- PySpark
- PowerBI
- Tableau

- Natural Language Processing
- Recommender Systems
- Algorithmic Trading
- Time Series Analysis
- Image processing
- Machine Learning

- Cloud Computing
- Deep Learning
- Big Data
- MLOps
- Docker
- Selenium

- Data analysis
- Data cleaning
- Data modeling
- Data wrangling
- Data visualization
- Data mining

- Quantitative analysis
- Hypothesis testing
- Regression
- Statistics
- A/B tests