

Mohammed Hasan Asaad

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Professional Title

Junior Data Scientist | Python | Machine Learning | Data Analysis | SQL

Professional Summary

Detail-oriented and self-motivated Junior Data Scientist with hands-on experience in machine learning, data preprocessing, and model deployment. Proficient in Python, SQL, and data visualization tools. Strong foundation in statistical analysis, model optimization, and technical reporting. Proven ability to work collaboratively in teams and adapt quickly to new technologies. Committed to continuous learning and delivering impactful, data-driven solutions.

Work Experience

Freelance Machine Learning Engineer

Remote | Jan 2024 – Present

- Developed machine learning models for healthcare and environmental datasets, achieving over 85% accuracy.
- Created a real-time sign language translator using CNN and integrated text-to-speech functionality.
- Built an IoT-based weather prediction system with 90% forecasting accuracy.
- Performed model tuning and reduced inference time by 30%.

Machine Learning and Deep Learning Intern

Qafza Tech Company for AI Solutions | 2024 – 2025

- Built regression and classification models for finance and healthcare applications.
- Conducted data cleaning, feature engineering, and exploratory data analysis.
- Improved model accuracy up to 90% and visualized results using Matplotlib and Seaborn.
- Designed a recommendation engine that increased user engagement by 20%.
- Prepared clear technical documentation and presented findings to stakeholders.

Projects

KMeans Clustering Project

Tools: Python, scikit-learn, Pandas, Matplotlib

- Implemented KMeans clustering algorithm from scratch and compared it with scikit-learn's version.
- Applied clustering on the Titanic dataset to uncover data patterns and passenger segmentation.
- Visualized results and evaluated performance using metrics and graphs.
- [GitHub Repository](#)

Breast Cancer Diagnosis using KNN – Manual vs Scikit-learn

Tools: Python, NumPy, Pandas, scikit-learn, Matplotlib

- Built two K-Nearest Neighbors (KNN) models to classify breast cancer tumors as benign or malignant.
- Implemented the first model manually from scratch using NumPy for distance calculations and class predictions.
- Developed the second model using KNeighbors Classifier from scikit-learn for benchmarking.
- Compared model performance using accuracy metrics and visualized results with Matplotlib.
- Gained deeper insight into KNN logic and hands-on experience in model evaluation and optimization.
- [GitHub Repository](#)

Google Stock Price Prediction using SVM, Linear Regression, and Random Forest

Tools: Python, scikit-learn, Pandas, Matplotlib, Seaborn

- Developed a machine learning pipeline to forecast Google's stock prices using historical data.
 - Engineered features such as volatility and percentage change to enhance model performance.
 - Implemented and compared three regression models: Support Vector Machine (SVM), Linear Regression, and Random Forest.
 - Evaluated model accuracy and visualized predictions against actual stock prices to assess performance.
 - Gained insights into model selection and time series forecasting techniques.
 - [GitHub Repository](#)
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Education

B.Sc. in Information & Communication Technology Engineering

University of Tartus – Syria / Graduated: September 2024

Certifications

- Machine Learning & Deep Learning – Qafza Tech Company
 - Python & Data Science – Qafza Tech Company
 - Certified Python Programmer – Coursera
 - Cisco Certified Network Associate (CCNA) – SVU
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Technical Skills

- **Programming:** Python, SQL
 - **Libraries/Frameworks:** scikit-learn, TensorFlow, Keras, PyTorch, OpenCV
 - **Data Visualization:** Matplotlib, Seaborn
 - **Tools:** Jupyter, Google Colab, Git, GitHub, Docker, Flask, FastAPI
 - **Cloud & Deployment:** AWS (basic)
 - **Methodologies:** Agile, Version Control (Git)
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Soft Skills

- Strong analytical and problem-solving skills
 - Excellent verbal and written communication
 - Adaptable, quick learner, and collaborative team player
 - Effective planning, documentation, and presentation abilities
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Languages

- **Arabic:** Native
- **English:** Fluent (Writing, Speaking, Grammar)