

HUSSEIN ALI

Machine Learning Engineer

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Professional Summary :

Results-driven Machine Learning Engineer with expertise in deep learning, MLOps, cloud computing, and automation. Passionate about optimizing models, deploying solutions, and transforming data into actionable insight.

Technical Skills :

Programming and Databases: Python, R, C/C++, SQLite, PostgreSQL, MongoDB

Frameworks and Packages: pandas, numpy, matplotlib, seaborn, plotly, scikit-learn, TensorFlow, Keras, PyTorch, nltk, spaCy, statsmodels, OpenCV, auto-sklearn, Flask, FastAPI, Streamlit, Gradio.

Tools and Platforms: Git/GitHub&GitLab, Jupyter Notebook, Google Colab, VS Code, RStudio, Obsidian, AWS SageMaker, Azure ML Studio, onrender.com, Hugging Face, Power BI, Looker, Tableau, Metabase, Superset.

Education :

BSc in Computer Science and Artificial Intelligence

Beni-Suef University | August 2019 - August 2023 4 years (Onsite/Remote)

- Extensive coursework in machine learning, deep learning, data science, and MLOps.
- Designed and implemented ML/software solutions using Python, SQL, Java, Flutter.

Specialty Diploma in Data Analytics and Visualization

Information Technology Institute (ITI) | July 2022 - Dec 2022 · 6 mos (Onsite/Remote)

- Advanced coursework in BI tools, data analytics, and visualization techniques. Gained hands-on experience with Power BI, Looker, and Tableau, leveraging data-driven insights for decision-making.

Volunteer Experience :

Machine Learning Engineer Instructor

GDSC Alazhr | March 2023 - Dec 2023 · 10 mos (Part-Time, Remote)

- Delivered hands-on training in machine learning, deep learning, and MLOps, covering model development, data preprocessing, and deployment workflows.
- Mentored 50+ students in developing production-ready ML models, improving their practical understanding of data preprocessing, feature engineering, and deployment.

Machine Learning Engineer Instructor

HDSC Assuit | March 2022 - April 2023 · 10 mos (Part-Time, Remote)

- Taught MLOps principles with a focus on model tracking, deployment, and monitoring, using Git, MLflow, and Docker.
- Provided mentorship and code reviews, ensuring students gained practical experience with real-world ML workflows and industry-standard practices.

Projects :

- [[CODECUBE](#)] - a collection of AI/ML applications, ranging from classification models to neural networks, demonstrating the practical use of various algorithms and solutions in real-world scenarios.
- [[SUMZIO](#)] - AI-driven text summarization web app.
- [[FLIX-HUB](#)] - Content-based movie recommendation system using NLP.
- [[MARKET-INSIGHT](#)] - an interactive dashboard to visualizes supermarket sales data.
- [[ROGEN](#)] - an AI-driven rocket flight simulation using genetic algorithms.
- [[SCHEDULIZER](#)] - Python package for interactive CPU scheduling algorithm visualization, enhancing learning through hands-on simulations.

Certifications :

- [Google Data Analytics Professional Certificate - Google](#)
- [Machine Learning Specialization - DeepLearning.AI](#)
- [Data Structures and Algorithms Specialization - University of California San Diego](#)
- [Mathematics for Machine Learning Specialization - Imperial College London](#)
- [Scientific Computing with Python Certification - freeCodeCamp](#)
- [Data Analysis with Python Certification - freeCodeCamp](#)
- [Machine Learning with Python Certification - freeCodeCamp](#)

Achievements & Awards :

- 🏆 **3rd Place - Coursera Data Science Code Competition (2022)**
Recognized for excellence in data science, machine learning, and problem-solving.
- 🏆 **GDSC Alazhr - Member of the Month (3x)**
Awarded for outstanding contributions in mentorship, project development, and community engagement.
- 🏆 **HDSC Assuit - Member of the Month (5x)**
Recognized for dedication to teaching, guiding ML students, and fostering an innovative learning environment.

Publications :

- No Publications
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