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 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 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