

# HUSSEIN ALI

## AI/ML Engineer

[kaggle/thisishusseinali](https://kaggle.com/thisishusseinali)

[linkedin/thisishussainali](https://linkedin.com/in/thisishussainali)

[github/thisishusseinali](https://github.com/thisishusseinali)

[hire-hussein@proton.me](mailto:hire-hussein@proton.me)

mobile: +201012787537

[thisishusseinali.github.io](https://thisishusseinali.github.io)

### Professional Summar

AI/ML Engineer with expertise in machine learning, deep learning, and MLOps. Experienced in developing and deploying AI models for real-world applications. Passionate about problem-solving, mentorship, and data-driven innovation.

### Technical Skills

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

**Frameworks and Packages :** pandas,numpy,matplotlib,seaborn,plotly,scikit-learn,TensorFlow,PyTorch,nltk,OpenCV,Flask,FastAPI,Streamlit,Gradio.

**Tools and Platforms :** Git/GitHub&GitLab,Jupyter Notebook, Google Colab, VS Code, RStudio, Obsidian,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.

#### Microsoft Machine Learning Engineer Digital Egypt Pioneers Program

Digital Egypt Pioneers | April 2024 – October 2024 · 6 mos (Onsite/Remote)

- Gained hands-on experience in model development, deep learning, and big data applications.
- Developed and deployed AI solutions for real-world challenges.

#### Data Analytics and Visualization ITI Tech-Leaps Program

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.

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## Projects

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- [\[ CODECUBE \]](#) - 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.

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## Certifications

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- [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](#)

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## Achievements & Awards

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- 🏆 [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.

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## Publications

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- No Publications
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