Yousef Moustafa

Junior AI/ML Engineer | AI for Space & Sustainability
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■ LinkedIn | ■ GitHub

About Me

I am a Junior AI/ML Engineer with hands-on experience in satellite image classification, CubeSat telemetry, and AI-powered autonomous systems. My focus is on leveraging artificial intelligence for space applications, remote sensing, and sustainable energy optimization. Currently advancing skills in MLOps and cloud deployment through Microsoft's DEPI program.

Skills & Services

Core Skills: Machine Learning, Deep Learning, NLP, Transfer Learning, Data Visualization, Satellite Data Analysis, Remote Sensing.
Tools: Python, Scikit-learn, NumPy, Pandas, OpenCV, MLflow, Hugging Face, Azure AI, Git/GitHub.
Freelance Services: AI/ML model development, Satellite imagery processing, Autonomous navigation systems, MLOps integration, AI-powered sustainability solutions.

Experience

Machine Learning Engineer Trainee – Microsoft DEPI Program
• Selected for elite AI & Data Science training.
• Built models in Computer Vision, NLP, and Prompt Engineering.
• Hands-on deployment on Azure with MLflow for experiment tracking.

Operations & Logistics Member – RallyBeniSuef
• Supported technical event operations for space-related initiatives.

PCB Technical Committee Member – IEEE BeniSuef Student Branch
• Contributed to PCB design & integration for CubeSat systems.

Education & Courses

BSc in Space Navigation (Aerospace Engineering) – Faculty of Navigation Science & Space Technology (2022–2027)

Courses:
• ALX AiCE – AI Career Essentials
• Coursera – Supervised Machine Learning
• SAS – Programming 1: Essentials
• GIS & Remote Sensing Courses
• Microsoft – Azure AI Fundamentals (in progress)

Portfolio Samples

• Satellite Image Classification Model – Built supervised ML models to classify remote sensing data.
• CubeSat AI Telemetry Analysis – Applied AI techniques to optimize CubeSat mission data.
• Autonomous Rover Prototype – Designed AI-driven navigation logic for rover systems.

(See my GitHub for project repositories: github.com/YousefM1911)

Contact

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