

# **Montaser Hussam**

# AI/ML Engineer | LLMs, NLP & Computer Vision Expert

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#### Professional Work Showcase

Skills AWS
CLOUD ENVIRONMENTS
HUGGING FACE TRANSFORMERS
TENSORFLOW
PYTORCH
NLP
COMPUTER VISION
TRANSFORMERS
RNNs
CNNs
DEEP LEARNING
MACHINE LEARNING
Languages Arabic
English

#### **Profile**

Results-driven AI/ML Engineer with hands-on experience in designing, developing, and optimizing scalable machine learning models, including CNNs and RNNs, for real-world AI solutions. Proficient in Python, TensorFlow, PyTorch, and Hugging Face Transformers, with a strong foundation in LLM fine-tuning, computer vision, and NLP. Skilled in building end-to-end MLOps pipelines using Docker, FastAPI, and cloud platforms (AWS, GCP). Proven ability to translate complex data into actionable insights and drive innovation through AI-powered optimization strategies.

### **Employment History**

#### Machine Learning Engineer, Mesolitica, Remotely

March 2023 — Present

- Designed and implemented machine learning models for sensor perception and data fusion, significantly improving real-time responsiveness in industrial automation and autonomous systems
- Tackled complex technical challenges in sensor modeling and rare event detection to enhance system robustness and performance
- Generated large-scale training and validation datasets through simulation to boost model generalization across various scenarios
- Worked with engineering teams to deploy ML models into production, focusing on performance optimization and scalability in cloud environments
- Produced high-quality, well-documented code following software engineering best practices and CI/CD methodologies

#### Artificial Intelligence Engineer, New Solution, Gaza

January 2022 — December 2022

- Developed and optimized machine learning algorithms for AI solutions in healthcare, finance, and automation, focusing on real-world impact
- Worked with data scientists and engineers to convert business needs into scalable AI models
- Built end-to-end machine learning pipelines, handling data preprocessing, model training, validation, and deployment using TensorFlow, PyTorch, and Scikit-learn
- Evaluated and fine-tuned model performance to ensure accuracy and reliability in practical applications
- Troubleshot complex algorithmic challenges while adhering to ethical AI and data governance standards

## Data Analyst Intern, Fusionex Group, Kuala Lumpur, Malaysia

January 2020 - April 2020

- Performed exploratory data analysis (EDA) and created interactive dashboards with Power BI and Tableau to enhance business intelligence efforts
- Worked closely with data engineers and software developers to preprocess and refine large datasets for predictive modeling applications
- Developed SQL queries and Python scripts to streamline data extraction, transformation, and reporting processes
- Delivered insights to the business team, aiding in data-driven decisions for sales and marketing initiatives

#### **Education**

Bachelor of Applied Information Technology , Al-Aqsa University, Gaza September 2019 — April 2025

• 3.0 GPA | Dean's List

#### Master of Artificial Intelligence , Malaya University, Kuala Lumpur

October 2025 - August 2027

• 4.0 GPA | Honors Graduate

#### Courses

#### **Data Science Certificate, Cornell Online Programs**

June 2024 — August 2025

#### AI Programming with Python, Udacity

January 2023 — March 2023

#### Machine Learning A-Z: Hands-On Python & R In Data Science, Udemy

February 2025 - April 2025

#### Deep Learning A-Z: Hands-On Artificial Neural Networks, Udemy

October 2024 — December 2024

#### Natural Language Processing with Deep Learning in Python, Udemy

May 2024 - July 2024

#### Generative AI Masterclass: ChatGPT, DALL-E, Midjourney, Udemy

March 2025 - March 2025

#### Computer Vision Masterclass - OpenCV and YOLO, Udemy

November 2024 - December 2024

#### **Prompt Engineering for AI, OpenAI Learning Series**

September 2023 — October 2023

#### **Building LLM-based Chatbots, Hugging Face Academy**

January 2025 - April 2025

#### **AWS Certified Machine Learning, Foundational Level**

July 2024 — September 2024

#### **TensorFlow Developer Certificate, Google Developers**

February 2024 - April 2024

#### PyTorch for Deep Learning and Computer Vision, Udemy

May 2023 — October 2023

## **Internships**

#### Full Stack Web Developer, New Solution, Gaza

March 2022 - September 2022

- Assisted in the design and development of responsive, dynamic web applications using HTML5, CSS3, JavaScript (ES6+), and modern frameworks such as React and Node.js.
- Participated in both front-end and back-end development, including building RESTful APIs, integrating third-party services, and managing databases with MongoDB and MySQL.
- Collaborated with senior developers to troubleshoot bugs, refactor legacy code, and implement new features based on agile sprint cycles.
- Contributed to UI/UX improvements by conducting user feedback sessions and iterating on wireframes using Figma and Adobe XD.
- Gained practical experience in version control using Git and deployment using platforms like Heroku and Netlify.

#### **Extra-curricular activities**

# Founder & Organizer, AI & Coding Club, Al-Aqsa University – Student Chapter, Gaza

March 2021 - June 2023

- Initiated and led a student-run AI and coding club to promote peer-to-peer learning and practical skill development in machine learning, web development, and data science.
- Organized weekly workshops, coding bootcamps, and guest speaker events with local and international AI professionals.
- Mentored students in building capstone projects using Python, TensorFlow, and web technologies.
- Created open-source resources and a shared GitHub repo for students to collaborate on real-world tech solutions.

#### References

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