ABDULLAH MAHER

Machine Learning Engineer

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PROFESSIONAL SUMMARY

Passionate and dedicated Machine Learning Engineer with a strong academic background and hands-on experience in designing, developing, and deploying advanced AI solutions. Successfully led a graduation project on bone fracture detection that earned an A+. Proven ability to optimize AI models, perform data analysis, and stay current with emerging AI trends and technologies. Adept at collaborating with cross-functional teams to create intelligent systems that address complex business challenges. Seeking to leverage my expertise in Python, machine learning frameworks, and data preprocessing to contribute to innovative AI solutions in a dynamic environment.

SKILLS

Programming Languages: Python, C++, Java, Scala, JavaScript

Machine Learning: Supervised Learning, Deep Learning, Probabilistic Models, Support Vector Machines, Neural Networks, K-Nearest Neighbors, Decision Trees, Ensemble Methods, Feature Engineering, Model Development

Frameworks & Libraries: Scikit-Learn, TensorFlow, Keras, PyTorch, NLTK, Transformers, Pandas, NumPy, Matplotlib, Seaborn, SQL Alchemy

Web Development: Django, Flask, FastAPI

Databases: Microsoft SQL, MySQL, PostgreSQL, MongoDB

Tools: Docker, Git, Bash Scripting, Jupyter Notebooks

Operating Systems: Windows, Linux

Other Skills: Computer Vision, Natural Language Processing (NLP), Data Structures, Algorithms, Clean Code, Problem Solving

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PROFESSIONAL EXPERIENCE

Microsoft Machine Learning Engineer Intern
05/2024 - Current | DEPI, Egypt

- Studied new technologies to support machine learning applications.

- Created customized applications for critical predictions, automated reasoning, decision-making, and optimization algorithms.

- Enhanced existing product offerings using AI and machine learning algorithms.

- Implemented and evaluated AI and machine learning algorithms and neural networks for diverse industries.

EDUCATION

Bachelor of Science in Computer Science and Artificial Intelligence
10/2020 - 07/2024 | Helwan University, Egypt

- Specialized in AI and machine learning, including deep learning, natural language processing (NLP), and computer vision.

- Developed and deployed multiple projects using Django, Flask, and FastAPI for model deployment.

- Graduation project on bone fracture detection, earned an A+ grade, demonstrating advanced skills in AI and machine learning applications.

Projects:

- **Bone Fracture Detection Graduation Project:** Achieved an A+ grade; involved advanced AI and machine learning techniques.

- **Summarization Faculty Project**

- **Sentiment Analysis Faculty Project**

- **Machine Translation Faculty Project**

- **MNIST Detection Faculty Project**

- **Plant Disease Recognition Faculty Project**

CERTIFICATIONS

- Machine Learning Specialization by DeepLearning.AI (Coursera)

- Deep Learning Specialization by DeepLearning.AI (Coursera)

- Natural Language Processing (NLP) Specialization by DeepLearning.AI (Coursera)

- Data Scientist Associate by DataCamp

Activities

Machine Learning Intern
10/2023 - 04/2024 | IEEE, Egypt

- Built user-friendly tools for non-technical colleagues to simplify interactions with trained machine learning models.

- Shared knowledge on best practices in machine learning development to foster a collaborative work environment.

- Contributed to the development of a robust machine learning pipeline, ensuring seamless deployment of models into production environments.

Data Scientist
10/2022 - 08/2023 | Vision, Egypt (Remote)

- Explored advanced machine learning techniques like deep learning and reinforcement learning to solve complex problems.

- Created data visualization graphics to translate complex data sets into comprehensive visual representations.

- Developed database solutions using multiple SQL languages.

LANGUAGES

- **Arabic:** Native

- **English:** B2 (Upper intermediate)

- **German:** A1 (Beginner)