Kareem Mohamed

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ABOUT ME

I am a highly motivated and ambitious Machine Learning Engineer currently pursuing a degree in Artificial Intelligence at Menoufia University. My passion lies in leveraging the power of technology—particularly in the fields of Machine Learning, Deep Learning, and Data Science—to develop intelligent systems that solve real-world problems. I am fascinated by the ability of machines to learn, adapt, and make decisions, and I strive to contribute to innovations that push the boundaries of what AI can achieve. I have a strong foundation in mathematics, statistics, and programming, with hands-on experience in Python, C++, SQL, and Java. My technical expertise includes model development and evaluation, data preprocessing, feature engineering, and deploying scalable ML solutions. I am proficient in using frameworks and tools such as TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, and OpenCV, as well as cloud platforms like AWS and Google Cloud. In addition to my technical capabilities, I am a dedicated and goal-driven individual with excellent problem-solving and analytical thinking skills. I thrive in collaborative environments and continuously seek opportunities to learn and grow. I am eager to apply my knowledge to impactful projects and make meaningful contributions to the field of Artificial Intelligence and Machine Learning.

EDUCATION AND TRAINING

Faculty of Artificial Intelligence
Menoufia University [01/10/2022]

Address: Shebeen El Kom, Menoufia (Egypt)

Microsoft Machine Learning Engineer
Digital Egypt Pioneers Initiative [01/06/2024 – Current]

City: Cairo | **Country:** Egypt | **Website:** depi.gov.eg

Machine Learning for Data Analysis
National Telecommunication Institute (NTI) [01/09/2024]

City: Menoufia | **Country:** Egypt | **Website:** nti.sci.eg

Artificial Intelligence
National Telecommunication Institute (NTI) [01/08/2023]

Address: Shebeen El Kom, Menoufia (Egypt) | **Website:** nti.sci.eg

Machine Learning & Deep Learning
DeepLearning.Ai [01/08/2023]

City: Stanford | **Country:** United States

C and Embedded C Programming
National Telecommunication Institute (NTI) [01/11/2023]

City: Menoufia | **Country:** Egypt

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

English
LISTENING C1 **READING** C1 **WRITING** C1
SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B2

WORK EXPERIENCE

Machine Learning Engineer

Digital Egypt Pioneers Initiative (DEPI) [01/06/2024 – Current]

City: Cairo | **Country:** Egypt

Successfully completed an intensive internship program focused on advanced data science and artificial intelligence technologies. Gained hands-on experience with cutting-edge tools and methodologies, including data science with Python, machine learning algorithms, and MLOps tools like MLflow and Hugging Face. Developed expertise in natural language processing (NLP) with Attention Models, Prompt Engineering, and foundational concepts in Generative Adversarial Networks (GANs). Enhanced technical proficiency in Azure AI services and achieved foundational knowledge toward Azure AI Engineer certification. Collaborated using Agile methodologies and Scrum practices, strengthening project management skills. Built a strong foundation in statistics, linear algebra, and practical AI implementation, contributing to technology innovation in a dynamic learning environment.

SKILLS

Technical Skills

Javascript / Typescript / Node / Express / Artificial Intelligence / Python / Data Science | Data Collection, Data Processing, Data Analysis, Data Visualization / C++ / Keras / Data Science / Computer Vision / Seaborn / Java / Matplotlib / Convolutional Neural Networks / PyTorch / scikit-learn / Numpy / SQL / Deep Learning / OpenCV / Git / Data Analysis / Image Processing / Matlab / Machine Learning / Azure ML & MLOps ,Chabot, NLP, ML, Azure ML / TensorFlow / Pandas / Prompt Engineering / Cybersecurity Fundamentals / MLflow / Natural Language Processing (NLP) / C, C++c C# / Anaconda / Machine Learning / Data Preprocessing / Object-Oriented Programming / – C, C++ , JAVASCRIPT, CSS3, HTML5, PYTHON, PHP / Web Designing & Web Development

Soft Skills

Communication Skills / Leadership and Mentorship / Attention to Detail / Ethical Awareness / Freelancing / Organizational & Planning Skill / Adaptability and Continuous Learning / Technical Writing / Creativity and Innovation / Problem-Solving and Analytical Thinking / Team Management & Team Work / Project Writing, Project Development, Project Management

PROJECTS

[01/06/2023]
Fraud Detection System with Streamlit and Azure Integration
Developed an end-to-end fraud detection system using machine learning, NLP (SpaCy, NLTK), and PCA for dimensionality reduction. Built a Streamlit app for real-time predictions, integrated MLflow for tracking, and deployed the solution on Azure Machine Learning with GANs for synthetic data generation.

VOLUNTEERING

[01/01/2020] Cairo
Egypt Red Crescent
As a volunteer with the Egyptian Red Crescent, I contributed to disaster relief efforts, supported those in need, and helped organize fundraising events. This experience enhanced my teamwork, communication, and problem-solving skills, while fostering a deeper understanding of the importance of community service. I am committed to continuing my volunteer work and making a positive impact in the future.

[01/07/2021]
Educate Me
As a volunteer at "Educate Me", I have had the opportunity to make a real impact in the lives of children from low-income families. The organization's mission is to improve the educational level of these children, and I am proud to be a part of that mission.