

Reem Hesham Mohamed

a passionate Machine Learning Engineer



Since I began my studies in Computer Science, I've been fascinated by how technology can be used to improve our lives and solve complex challenges. Specializing in Artificial Intelligence and Machine Learning, I've come to realize the potential of these fields to make a significant impact across industries. Through both academic and professional projects, I have gained solid experience in Python programming, data analysis, and building intelligent models that leverage data to make informed decisions.

My involvement in the Digital Egypt Initiative and my continuous drive to improve my skills have reinforced my belief in the power of technology to shape the future. I view every challenge as a new opportunity to learn and grow, always striving to transform ideas into practical solutions that can make a positive impact on the world.

In this portfolio, I share some of my works and achievements that reflect my passion and commitment to the field, and I look forward to further honing my skills and building a bright future in the world of Artificial Intelligence.



Each learning milestone strengthened my ability to solve coplex problems and innovate as a developer

§ Education:



Educationnal Training - DEPI 2025

Specialized in AI & Machine Learning



Bachelor of Engineering 2026

Minor in Computer Science MET Academy



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© Certifications:



Artificial Intelligence & Machine Learning



Mansoura University - Digital Training
Center (DTC)
2025
Python For Data Science and Machine Learning

WUNIQUE SELLING POINT:

"Certified AI Specialist from the Digital Egypt Initiative – equipped with hands-on experience, cutting-edge machine learning techniques, and industry-recognized expertise to drive data-driven innovation."



Skills:

- Programming Languages:Python,SQL,C++
- Data Analysis:Pandas,NumPy,Matplotlib,Seaborn
- Tools:Jupyter Notebooks,VS Code,Git
- Artificial Intelligence: Neural Networks, Computer Vision
- Machine Learning: Classification, Regression, Clustering



Services:

- Data Analysis and Visualization: Extract meaningful insights from complex datasets and present them in an understandable format.
- Machine Learning Model Development: Build, train, and optimize machine learning models for predictive analysis.
- Al Solution Consulting: Provide recommendations and strategies for integrating Al solutions into various business processes.
- Model Evaluation and Improvement: Analyze and improve existing machine learning models for better performance.

Projects:

Predictive Analysis Using Linear Regression for Data Modelling



I offer data analysis using Linear Regression to predict and analyze data. I will clean the data, apply the model, and evaluate its performance using metrics like MAE and RMSE. I will also provide clear insights with a summary report outlining the model's effectiveness.

Tools:

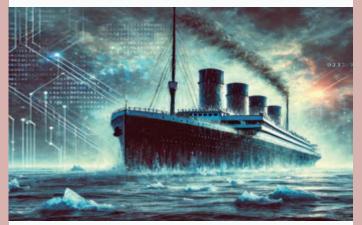
Linear Regression Data Cleaning Data Visualization Python Predictive Modeling **Efficient Data Encoding Techniques**



In this project, I implemented and compared different encoding techniques to transform categorical data into a machine-readable format, which is crucial for improving the performance of machine learning models.

Tools:

Python Data Preprocessing pandas NumPy Matplotlib Survival Prediction on Titanic: A Data-Driven Approach



The Titanic project aims to analyses passenger data aboard the Titanic to predict the likelihood of each passenger's survival based on features such as age, gender, ticket class, and other information.

Tools:

Python Data Preprocessing Data Analysis Machine Learning Data Visualization



Reem Hesham



Thank You!

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