Ahmed Ragab Desouki

Data Scientist & Machine Learning Engineer
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🔗 LinkedIn | GitHub | Portfolio

Data Scientist and Machine Learning Engineer with hands-on experience in developing, deploying, and optimizing ML models and AI systems. Skilled in Python, and NLP with strong problem-solving and algorithmic thinking.

Education

B.Sc. in Computer Science
Helwan University, 2022 – Present
GPA: B+

Certifications

- **Linear Algebra for Data Science and ML** – DeepLearning.AI (View Certificate)

- **Supervised ML: Regression and Classification** – DeepLearning.AI (View Certificate)

Skills

Programming Languages & Tools
- Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, NLTK)
- SQL (MySQL, SQL Server, Oracle)
- C, C++, Java
- Web: HTML, CSS, PHP

Machine Learning & Data Science
- Supervised & Unsupervised Learning, Model Evaluation, Feature Engineering
- Natural Language Processing (NLP)
- Statistical Analysis, Data Visualization
- Mathematics: Linear Algebra, Probability, and Statistics

Software Engineering Concepts
- Object-Oriented Programming (OOP), Data Structures & Algorithms
- SOLID Principles, Design Patterns, Clean Code Practices

Soft Skills
- Problem Solving, Logical Thinking
- Communication & Team Collaboration

Experience

Data Science & Machine Learning Intern – *Digital Egypt Pioneers Initiative (DEPI)*
- Collaborated with a team of interns and mentors on real-world AI challenges under tight deadlines.

Projects

Resume Screening *– Python, NLP, Scikit-learn*
A smart, AI-powered resume screening application that leverages Natural Language Processing (NLP) and Large Language Models (LLMs) to automate and optimize the hiring process. Built to help HR professionals efficiently filter and evaluate resumes based on job requirements.
🔗 GitHub

Food Recognition *– Python, Scikit-learn*
Built a food image classification model using classical machine learning with Scikit-learn. Applied feature extraction and preprocessing techniques to improve performance.
🔗 GitHub

Customer Churn Prediction and Analysis *– Python, Scikit-learn*
building a machine learning model to predict customer churn.
🔗 GitHub

Text Classification *– Python, NLP*
Developed a machine learning model to classify textual data into relevant categories using Scikit-learn and NLP techniques such as TF-IDF and tokenization.
🔗 GitHub

MedHub (Collaborative) *– PHP, MySQL, HTML/CSS*
Designed a web-based PMS to help manage clinic operations such as patient records, appointments, and medical billing.
🔗 GitHub

Parking Guidance System – *Java*
My first university project in level 1: smart parking assistant guiding drivers to available spots.
🔗 **GitHub**

Airline Flight Delays and Analytics – *Python, Dash, Plotly*
This project is an interactive Dash web application that visualizes flight delay statistics. It provides insights into flight performance, delay patterns, and potential causes using real-world airline data.
🔗 GitHub

Achievements

Participated in the Egyptian Collegiate Programming Contest (ECPC), gaining hands-on experience in competitive programming, algorithm optimization, and problem-solving under pressure.

🌐 Languages

- **Arabic** – Native
- **English** – Fluent