ABDELRAHMAN BALBAA

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Education

Alexandria University   **Sep 2024 – May 2028**
Faculty of Computer and Data Science — Artificial Intelligence Department   *Alexandria, Egypt*
Second-Year Student

Technical Skills

Programming Languages: Python, Java, C++

Tools & Libraries: Pandas, Scikit-Learn, Matplotlib, Power BI, Excel, Tkinter

Concepts: Machine Learning, Deep Learning, NLP, Data Structures, OOP, Data Visualization, Clustering, Regression, Cloud Fundamentals (AWS)

Experience

Digital Egypt Pioneers Initiative (DEPI)   **Fall 2025 – Present**
DEPI Trainee   *Alexandria, Egypt*
- Selected as a participant in the Digital Egypt Pioneers Initiative (DEPI), a national program by the Egyptian Ministry of Communications.
- Receiving structured training in data engineering , and digital skills.
- Working on hands-on projects and collaborative tasks to apply technical concepts in real-world scenarios.

WE (Telecom Egypt)   **Jul 2025 – Aug 2025**
AI & Data Analysis Intern   *Alexandria, Egypt*
- Applied **Python, Pandas, Power BI**, and Excel to analyze and visualize real datasets.
- Built ML prototypes, performed data cleaning, and feature engineering for business use cases.
- Collaborated with the data team to deliver actionable data insights.

Commercial International Bank (CIB)   **Jul 2025 – Aug 2025**
Digital Transformation & Data Literacy Intern   *Remote*
- Explored how data analytics enhances business operations and decision-making.
- Worked with visualization tools to produce clear, ethical reporting dashboards.

Projects

Loan Approval Prediction — *Python, Scikit-Learn, Pandas*   **Aug 2025**
- Developed a classification model using a Kaggle dataset to predict loan approvals.
- Applied data preprocessing, encoding, and handled imbalanced data with resampling.
- Improved model recall by 18% through feature engineering.

Mall Customer Segmentation — *Python, K-Means, Matplotlib*   **Jul 2025**
- Segmented customers by income and spending score using K-Means Clustering.
- Determined optimal clusters using elbow method and data scaling.

Student Performance Prediction — *Python, Linear Regression*   **Jun 2025**
- Built a regression model to predict student scores based on study hours.
- Handled data cleaning and outlier detection; achieved R^2 of 0.89.

University Management System — *Java, OOP, File I/O*   **May 2025**
- Simulated university operations with roles for students, faculty, and admins.
- Implemented registration, GPA calculation, grading, and reporting features.

Sparse Table for Course Registration — *Java, Linked Lists*   **Mar 2025**
  – Implemented a memory-efficient sparse table using linked lists.
  – Enabled dynamic enrollment and real-time course tracking.

Maze Solver — *Python, BFS, DFS, Tkinter*   **Apr 2025**
  – Created an interactive maze-solving application with real-time visualization.
  – Implemented BFS and DFS algorithms to demonstrate search pathfinding.

Certificates

Applications of Artificial Intelligence   **Aug 2025**
The British University in Egypt — Faculty of Engineering   *15 Hours Course*

Intro to AI with AWS   **May 2025**
Udacity   *View Certificate*

AWS Educate Machine Learning Foundations   **Jun 2025**
Amazon   *View Certificate*

Oracle AI Foundations   **Jun 2025**
Oracle   *View Certificate*

Python for Data Science, AI & Development   **Jul 2025**
IBM   *View Certificate*

Activities

Safwa FCDS   **Spring 2025 – Present**
Media Head
  – Led a student media team, enhancing communication and coordination skills.
  – Created structured content and managed team workflows, demonstrating strong organizational and leadership abilities.

Digital Egypt Pioneers Initiative (DEPI)   **Fall 2025 – Present**
DEPI Team Leader   *Egypt*
  – Selected as a Team Leader within the Digital Egypt Pioneers Initiative (DEPI).
  – Leading and coordinating a group of trainees, ensuring task completion and effective collaboration.
  – Supporting peers technically and facilitating communication between team members and mentors.