NADA ABOUBAKR

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DATA SCIENTIST | SOFTWARE ENGINEER

With a strong foundation in data science and software engineering, I am committed to contributing to impactful projects across various industries. My experience in machine learning, data analysis, and IT has prepared me to excel in diverse roles, driving innovation and advancing technology.

STRENGTHS AND EXPERTISE

Data Analysis & Interpretation	Web Development & Design	Team Leadership
Machine Learning Model Development	Predictive Analytics	Project Management
	Data Visualization & Reporting	Communication

PROFESSIONAL EXPERIENCE

Technocolabs Softwares Inc. ,India   **April 2023 - July 2023**
Machine Learning Intern

Created and deployed 2 machine learning models to enhance data-driven decision-making processes while collaborating with cross-functional teams to deliver tailored solutions, demonstrating strong communication and teamwork abilities.

Accomplishments:
- Participated in a predictive modeling project on mortgage-backed securities, improving trend prediction accuracy by 86%.
- Utilized Flask to successfully deploy machine learning models, enhancing the user interface and experience.
- Established comprehensive data analysis that directly contributed to project success and informed decision-making.
- Completed a Mini Project on Big Mart Product Outlet Sales, and identified factors that contribute to increased sales with 60% accuracy. demonstrating initiative and strong analytical capabilities.

Al-Ahli Hospital, Qatar   **August 2023 - September 2023**
IT & Telecom Intern

- Engaged in data analysis and crafting dashboards that improved decision-making processes for hospital management.

Accomplishments:
- Created 3 data-driven dashboards that enhanced operational efficiency and strategic planning.
- Performed some basic supervised learning techniques to make predictive analyses regarding patients' ages, genders, and health records.

EDUCATION

Alexandria University, Egypt   **October 2020 - June 2024**

Bachelor of Computer and Data Science
- CGPA: 3.401/4.0

SELECTED PROJECTS

Enhancing Drug Combination Safety
Graduation Project
- Developed computational models to predict drug-drug interactions, reducing risks in multi-drug therapies.
- Achieved AUPR of 0.915 a high accuracy rate in predicting harmful interactions using machine & deep learning algorithms in Python.
- Collaborated with 5 multidisciplinary team members to drive project success, improving workflow and communication.

Mortgage-Backed Securities Prepayment Risk Prediction
Internship Project
- Utilized supervised machine learning to predict mortgage-backed securities prepayment risk, resulting in a 3% improvement in predictive accuracy.
- Conducted extensive exploratory data analysis, resulting in a 25% reduction in project completion time

Hotel Database Management System (DBMS)
University Project
- Created and implemented a comprehensive database management system for a hotel, optimizing data storage and retrieval.
- Produced the system using SQL, ensuring efficient handling of large volumes of data.

EXTRACURRICULAR ACTIVITIES

Web Development Volunteer
Wavemakers United

Machine Learning Volunteer
IEEE SSCS Alex SC

HR Volunteer
IEEE SSCS Alex SC , FCDS ICPC