

# ABDULAZIZ ALTHOBAITI

## Programming | Data Science

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### • Summary

Data Scientist with 2+ years of experience in developing machine learning models (CNN, YOLO) and data-driven solutions. Proficient in Python, SQL, and Power BI, with expertise in data analysis, predictive modeling, and statistical insights. Delivered 10+ projects, including AI-powered football tracking and plant classification. Skilled in transforming raw data into actionable insights, building AI-powered applications, and developing interactive dashboards for decision-making.

### • Projects

- ◆ **Built** a computer vision model using YOLO to analyze ball possession, reducing manual tracking time by 40% for sports analysts.
- ◆ **Automated** SQL data extraction and transformation into a structured Pandas DataFrame using SQLAlchemy.
- ◆ **Developed** a full-stack app using ASP.NET, SQL, C#, achieving 85% functional accuracy.
- ◆ **Built** and deployed a movie **recommendation system** (Python, Scikit-learn, Flask) that efficiently processed 10,000+ films, improving user engagement.
- ◆ **Developed** an ML model (Python, Scikit-learn) with 92% accuracy, streamlining loan processing for a financial institution.
- ◆ **Created** a CNN model (SwiftUI) to classify 30 plant species, deployed as a mobile app for environmental researchers.
- ◆ **SCAI League Hackathon** (2025): Developed a system to assist coaches, analysts, and scouts, enhancing sports performance analysis and decision-making.
- ◆ **جادة هالكاثون** (Social Development Bank, 2024): Created innovative solutions addressing economic challenges in Jeddah, converting them into viable investment opportunities.

### • Technical Skills

- ◆ **programming languages** : Python | SQL | C# | HTML | CSS
- ◆ **frameworks & tools** : Power BI | Excel | Matplotlib | Seaborn | ETL | EDA | SQLAlchemy | Computer Vision (YOLO, CNN) | Scikit-learn | Feature Engineering | Fine Tuning | Pandas | OOP | ASP.NET

### • Communication Skills

- ◆ **Presented AI projects** in training camps, showcasing machine learning models and their impact
- ◆ **Wrote detailed documentation** for a deep learning plant classification project to ensure clarity and usability.
- ◆ **Participated in code reviews**, contributing to improving code quality and team collaboration in group projects.
- ◆ **Explained complex machine learning concepts** to non-technical stakeholders in an easy-to-understand manner.

### • Certificates

- ◆ AI & Data Science Bootcamp Certificate – **T5 SDAIA** (2024 | 3 months).
- ◆ AI Models Development Camp – **Tuwaiq Academy** (2024 | 2 months).
- ◆ Microsoft Power BI Certification – **Microsoft** (2023).
- ◆ Microsoft Excel Certification – **Microsoft** (2023).
- ◆ Introduction to Artificial Intelligence (AI) – **IBM** (2024).

### • Education

- ◆ Diploma in **Computer Programming** GPA: **4.57/5.0**, **Institute of Public Administration, Jeddah**