

# Tawfiq Moharaq

## AI Engineer

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### Profile

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AI Engineer specializing in applied machine learning, computer vision, and intelligent data platforms. Experienced in developing end-to-end AI solutions including predictive analytics, smart city systems, AI-powered APIs, and scalable SaaS platforms. Passionate about contributing to national AI initiatives and building data-driven systems that support digital transformation and smart infrastructure.

### Career Objectives

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#### Short-term

Aspiring AI Systems Engineer seeking to contribute to national AI initiatives by developing scalable intelligent systems, data-driven platforms, and applied machine learning solutions that support digital transformation in Saudi Arabia.

#### Long-term

Growing into a leading software and AI engineer, contributing to innovative solutions that enhance technology and digital transformation in Saudi Arabia.

### Education

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**Bachelor's Degree in Computer Science - Jazan University (2021 – 2026)**

2021 – 06/2026

**GPA: 4.88/5**

### Professional Experience

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**Data and Analytics Intern, Digital Transformation Agency – Jazan Tower**

06/2025 – 08/2025  
Jazan, Saudi Arabia

#### KAUST Academy – Artificial Intelligence & Computer Vision

- Advanced to the third stage of the academy, gaining expertise in artificial intelligence and computer vision.

### Projects

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**Armonia, AI-Powered Recommendation System for the Private Sector Selected among the Top 10 Entrepreneurs in Saudi Arabia (Biban)**

10/2025 – Present

- Developed an AI-enhanced mobile application with user analytics, smart automation, and seamless system integration.
- Tools: Python, FastAPI, AI Models, Computer Vision, REST APIs

**Bonian: AI-Powered UML-to-Code Editor** [🔗](#)

08/2025 – 04/2026

- Achieved **1st place** in Computer Science projects
- Built a workflow for UML understanding, diagram normalization, and code generation based on real software logic.
- Tools: Python, FastAPI, TypeScript, VS Code OSS, PlantUML, AI/Vision Models.

**UniHub – Smart Recommendation App for University Activities** [🔗](#)

- Participated in the *Digital Innovation Hackathon 2025* and won **2nd place**. Developed an AI-powered app that recommends suitable university activities to students based on their interests and academic background
- Tools: Python, Google Colab, ML, Kaggle

<p><b>Smart City Mobility &amp; Analytics Platform,</b>  <i>AI System for Traffic Prediction &amp; Smart Services</i></p> <ul style="list-style-type: none"> <li>• Built a multi-model AI system for smart city monitoring by integrating traffic counting, smoke/fire detection, and violence detection on a unified camera stream, with a real-time analytics dashboard providing time-based summaries and insights.</li> <li>• Tools : Python, TensorFlow / PyTorch, YOLO / Computer Vision, Pandas / NumPy, Streamlit Dashboard and OpenCV</li> </ul>	<p>11/2025 – 12/2025</p>
<p><b>Rsur</b></p> <ul style="list-style-type: none"> <li>• Developed an AI-powered platform focused on intelligent automation, system integration, and performance optimization for research purposes.</li> <li>• Tools: Node.js, Express, AI APIs, RESTful Services</li> </ul>	<p>02/2026 – 04/2026</p>
<p><b>University Employee Data Analysis Dashboard</b> <a href="#">↗</a>,  <i>Power BI Project – Data Office Internship</i></p> <ul style="list-style-type: none"> <li>• Designed and developed an interactive dashboard to analyze university employee data (faculty, administrative staff, and technicians).</li> <li>• Visualized key metrics such as job distribution, gender, and nationality to support decision-making.</li> <li>• Used Power BI for data cleaning, transformation, and visualization.</li> </ul>	<p>07/2025 – 08/2025</p>
<p><b>Customer Churn Prediction &amp; Retention Strategy</b> <a href="#">↗</a></p> <ul style="list-style-type: none"> <li>• Analyzed the Telco Customer Churn dataset with EDA, feature engineering, and ML models to predict churn. Simulated retention strategies (discounts, perks) to assess cost-benefit and identify the best model.</li> <li>• Tools: Python, Pandas, Matplotlib, Scikit-learn</li> </ul>	<p>07/2025 – 08/2025</p>
<p><b>TechFlare Competition – Internet of Things (IoT)   Cisco</b> <a href="#">↗</a></p> <ul style="list-style-type: none"> <li>• Participated in the competition as part of a team and secured first place.</li> <li>• Led the team in device integration using IoT with Packet Tracer, managed Python programming, and designed a video simulation of the project in Minecraft.</li> <li>• Tools : Cisco Packet Tracer, Python, Minecraft</li> </ul>	
<p><b>PDF Extractor API</b></p> <ul style="list-style-type: none"> <li>• An API to automatically extract specific text content from PDF files for easier processing and analysis</li> <li>• Tools : Python, FastAPI, pdfplumber</li> </ul>	
<p><b>Online Banking System</b> <a href="#">↗</a></p> <ul style="list-style-type: none"> <li>• A console-based banking application in Java with features such as account creation, deposits, withdrawals, and balance inquiry.</li> <li>• Tools : Java</li> </ul>	
<p><b>Weather Prediction Model</b> <a href="#">↗</a></p> <ul style="list-style-type: none"> <li>• A machine learning model to predict weather conditions based on historical meteorological data.</li> <li>• Tools : Python, Scikit-learn, TensorFlow</li> </ul>	
<p><b>Search for similarity in handwritten Arabic letters</b> <a href="#">↗</a></p> <ul style="list-style-type: none"> <li>• A model to detect and measure similarity between handwritten Arabic letters using deep learning techniques.</li> <li>• Tools: Python, Deep Learning frameworks</li> </ul>	
<p><b>Web Article Finder</b> <a href="#">↗</a></p> <ul style="list-style-type: none"> <li>• A Python-based web scraper that fetches and displays articles from the internet based on keywords such as love, science, or life.</li> <li>• Tools : python, Requests</li> </ul>	

## Skills

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### Programming:

Python, Java

### Backend & Systems:

Python, FastAPI, Node.js, Express, REST APIs

### Networking & IoT:

Cisco Packet Tracer

### AI & Machine Learning:

TensorFlow, PyTorch, Scikit-learn, OpenCV, YOLO

### Data Analysis:

Google Colab Notebook, Pandas, NumPy, Matplotlib, Power Bi, Streamlit

### soft skills:

Teamwork & collaboration, Problem solving, Passionate,

## Certificates

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### TechFlare Program Certificate (Cisco)

### Power Bi

Level 3

### KAUST AI & Computer Vision Certificate

### Building Intelligent Applications with AI and ML

*Saudi Digital Academy – Global  
Knowledge*

### Python Basic Certificate

### Smart Robotics Camp

AI Center of Advanced Studies  
(Dhak'aa), King Saud University  
September 13 - 17, 2025

## Languages

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• Arabic (Native)

• English