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Portfolio: Abdelrahman Sharafeldin | AI Automation Engineer

PROFESSIONAL SUMMARY

Mechanical Engineering graduate and AI Automation Developer specializing in transforming manual operations into intelligent automated workflows. Builds end-to-end AI systems using n8n, LLM agents, APIs, and databases to reduce execution time and operational costs. Proven results include automation solutions that cut task time by up to 94%. Focused on driving ROI and efficiency through practical AI integration.

EDUCATION

Cairo University - Faculty of Engineering | Class of 2025
- Bachelor's degree in Mechanical Design and Production Engineering.

EXPERIENCE

Independent AI Automation Engineer, Jan 2026 – Present
Designing and deploying enterprise-grade AI workflows and conversational agents for business optimization.
- **Smart Sales AI Agent (Retail):** Built a conversational AI bot that mimics a real sales employee to assist customers with product selection and inventory tracking. Integrated n8n, Neon PostgreSQL, Mistral AI, and Telegram API to handle end-to-end sales logic.
- **24/7 AI Customer Support System:** Developed an intelligent intent-based Telegram agent using multi-LLM routing to resolve customer queries with approximately **99%** accuracy, storing info in google sheets, and significantly reducing human support ticket volume.
- **Production Downtime Alert System:** Engineered a supply chain monitoring workflow that automatically extracts raw material IDs from supplier emails, identifies affected production lines, and triggers instant alerts to management to prevent production delays.
- **Automated Document Translation Pipeline:** Created an automated system that ingests English business PDFs, translates them to Arabic via AI while preserving the native document layout.

Stock Management | Azadea ABS, August 2025 – September 2025.
- Automated a cycle count task in Excel to reduce the time needed by **94%** using VBA, saving approximately **35 hours/month**.s
- Created a dynamic Excel dashboard using PivotTables, PivotCharts, and Slicers to quickly identify the root causes of low-rating feedback from relevant departments, improving clarity and decision-making.
- Worked on the automation of the daily activities using VBA.
- Supported cycle count procedures for stock management in fashion and accessories brands using **Oracle ERP System** by coordinating with the regional team in Jordan to ensure accurate stock control across 650 stores in the MENA region.
- Investigated causes of stock shrinkages and surpluses to optimize inventory accuracy.

Continuous Improvement & Sustainability | Mondelēz International, September 2024 – June 2025.
- Utilized Power BI for visualizing waste pattern and status and collaborated with cross-functional teams to address and execute food waste reduction initiatives.
- Proposed and iterated mechanical design solutions that accounted for approximately an **18%** reduction in food waste.

Supply Chain & Manufacturing - Case Study | P&G, April 2025 – May 2025.
- Utilized Power BI in visualizing the Capacity to Demand Ratio and Delivered a presentation to stakeholders, showcasing insights on the case study.
- Developed Strategic product launch planning and inventory management strategies to minimize Inventory Disposition Expense while ensuring service levels.

Teaching Assistant in Physics | High School Students, December 2023 – February 2024.
- Delivered lessons, explained complex problems, and provided individualized support to students.

AI AUTOMATION PROJECTS

- AI Sales Chatbot for Beverage & Dessert Store
- AI Customer Support Bot
- Automated Document Translation System
- Production Delay Alert System

LANGUAGE AND TECHNICAL SKILLS

- Fluent in spoken and written Arabic and English (CEFR C1 – Duolingo English Test).
- **AI Automation Tools:** n8n, LLM Integration, Prompt Engineering, and Workflow Design.
- **Backend:** API Integration, Webhooks, JSON processing, PostgreSQL (Neon DB).
- **Programming:** VBA (Excel Automation)
- **Data Analytics & Visualization:** Advanced Excel, Dashboards, and Power BI.
- Proficient user of Microsoft Office Applications.
- **Engineering Tools:** Oracle and ProjectLibre (Project Planning).

COURSES

- AI Automation Foundation using n8n.
- Advanced Microsoft Excel (365 Data Science).
- Data Visualization and Dashboards with Excel. (IBM by Coursera).
- Data analytics using spreadsheets (ALX Africa).
- Data analytics using Microsoft Excel (IBM by Coursera).
- Introduction to data analytics (IBM by Coursera).
- Introduction to programming using Python (University of Michigan by Coursera).
- Data structure using Python (University of Michigan by Coursera).
- Introduction to Digital Marketing and Personal Branding (Virtual Courses Now).

EXTRACURRICULAR ACTIVITIES

Cairo University Racing Team – Formula Student UK, February 2024 – May 2025.
Vice-Head of Cost & Manufacturing, December 2024 – May 2025.
Head of Power Transmission, February 2024 – September 2024.