

Ali El Gohary

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Experience

Intel Corporation – Swindon, UK

Aug 2023 – Aug 2024

Data Scientist

- Delivered end-to-end data-driven solutions, including applications, automations, and ML models, tailored to business needs for both internal and external stakeholders.
- Coordinated the implementation of an internal GPT-powered chat bot, improving user support and operational efficiency, saving ~3000 hours annually across EMEA and AMR.
- Collaborated with stakeholders in accordance with the agile software development methodology, including requirements gathering, adhering to best coding practices, and ensuring robust post-launch maintenance.

Data Analyst

- Utilised SQL to identify and analyse KPIs, translating data insights into actionable business requirements, aligning them with strategic objectives.
- Maintained data integrity by managing databases and resolving over 100 user-reported issues.
- Developed PowerBI dashboards for revenue, employee, and hiring data to support informed business decisions for over 10 sales teams.

MyTutor, GCSE Physics Tutor – Sheffield, UK

Feb 2022 – Apr 2022

Provided personalized physics tutoring to 5 GCSE students, addressing individual academic challenges via tailored techniques to match each student's learning style, assuring improved comprehension. Resulting in an average of a 20% increase across cohort through scheduling and planning sessions, and preparing presentations.

Enactus Sheffield, Software Engineer – Sheffield, UK

Sep 2021 – May 2022

Maintaining data security, designing and maintaining project websites, managing website operations, and conducting research to identify optimal hosting solutions and data protection strategies. Developed web application for ongoing projects resulting in a 47% traffic increase to website.

Siemens, Project Management Intern – Cairo, Egypt

Jul 2021 – Oct 2021

Engaged with sales and technical teams in planning and executing generator service projects, reducing operational costs by 9% over a quarter while monitoring project progress through KPI tracking and project management tools like Jira, guaranteeing 80% on time completion of deliverables and adherence to scope across 4 projects.

Projects

Long Range Value (LRV) Forecast

PowerFx, JavaScript, DAX

Developed a web application for Intel managers to optimise revenue forecasting based on user-defined parameters and extrapolation technique saving ~300 hours annually.

Bonus Program Application

Python

Designed a pipeline for Intel's bonus program, enabling employees to submit opportunities based on deals won. Submissions were evaluated for approval or rejection via a Django-based web application, with results exported to Excel for manager review, saving ~125 hours quarterly.

Prime Name Matching

Python

Automated a solution to resolve data consistency issues between naming conventions across Intel databases via fuzzy matching, saving 80 hours in a one-off fix.

Dissertation Project: Categorizing Offensive Language in Social Media

Python

Explored and implemented different approaches for automated offensive language and hate speech detection on Twitter and performed a comparative analysis on different Machine Learning (SVM, NB, LR, RB) and Deep Learning (CNN, RNN, Transformers) models to explore performance and generalisability achieving 96% accuracy using BERT.

Solitaire Solver

Haskell

Implemented a Haskell program that creates a random Eight Off Solitaire board and attempts to solve it.

VAT Management System

Ruby on Rails

Automated VAT cross referencing system for the University VAT team between C79, MSS, and PVA documents, saving ~6 hours a week.

Forest Fire Simulation

Python

Created a python program that simulates forest fire spread across different environments and biomes using a probabilistic model.

Technologies and Skills

Programming Languages: Python, SQL, Java, Ruby on Rails, Haskell, JavaScript, Kotlin

ML Frameworks: Tensorflow, PyTorch, OpenCV, Transformers, LangChain, NLTK

Technologies: Google Cloud, Microsoft Azure, PowerBI, Power Query, Power Apps, Power Automate, Tableau, Django

Language Proficiency: Arabic (Native), Italian (Fluent), English (Fluent), Spanish (Beginner)

Education

University of Sheffield – Master's in Software Engineering

Sep 2020 – Jun 2025

Coursework: Natural Language Processing, Speech Processing, Reinforcement Learning, Machine Learning, Algorithms and Data Structures, Mobile Development, Bio-Inspired Computing, Functional Programming, Automata, Robotics, Web Development, Java Programming, Finance and Law for Engineers, Managing Engineering Projects

Hayah International Academy – International Baccalaureate

Sep 2018 – May 2020

Coursework: Mathematics HL, Physics HL, Business Management HL. Final score of 37.