Mohamed Hazem Hussein

hazem2765@gmail.com | +974 5517 0554 | +44 74 955 92308 | linkedin.com/in/mohamed-hussein-410b60167 UK Graduate Visa Ref: 3434-1574-4064-9296 – Valid until 26 May 2026

EDUCATION

MSc. Data Science | Coventry University – 1st Class Distinction

Jan 2023 - Jan 2024

Main Focus: Data Analysis, Modeling & Visualization using Python, SQL, R, HTML5, MS Office, & Tableau.

BSc. Mechanical Engineering | Texas A&M University

Aug 2016 - May 2021

Main focus: Data Acquisition and Analysis, 3D Modeling, and System Control.

EXPERIENCE

AP Precalculus Professor | Global Academy Full Time

Jan 2024 – present

Role: Tutoring high-school sophomores and junior students in AP Calculus and AP Precalculus as part of the College Board AP Certification.

STEM Branch Online Tutor | Self Employed - Part Time

Sep 2022 - present

Role: Tutoring high-school/university students online in STEM subjects including Physics and Math A-Levels, IB, SAT, and ACT examinations. Achievement: Single-handedly managed to improve customers' scores by an average of 27% (almost 3 letter grades) despite previous scores.

HVAC Consultant | Arab Engineering Bureau - Internship

Mar 2022 - Aug 2022

<u>Role</u>: Using software such as HAP30 and AutoCAD/SolidWorks to aid several teams in actualizing apartment/office designs into 3D models.

Achievement: Studied past expenses and worked with finance teams to negotiate a cost-efficient software upgrade for HAP with software provider.

Associate Maintenance Engineer | Hassanesco C.C. - Apprenticeship

Jun 2021 – Dec 202

<u>Role</u>: Working on-site to supervise new heavy machinery vehicles transfer and equipment repair to ensure construction schedules remain on time. Achievement: Negotiated a new maintenance framework with Mercedes and Caterpillar, upgrading current systems from Reactive to Preventative.

Junior Project Manager | Qatar Foundation - Contract

May 2020 - Aug 2020

Signed an NDA.

PROJECTS

Master's Dissertation - Automatic Image Caption Generation

Trained a CNN Deep Learning algorithm to recognize elements of pictures using a pre-existing training dataset, making use of subprograms such as Long/Short-Term-Memory (LSTM), Tensor Flow, Keras, and pillow.

Web-Based Vertical Search Engine for CU Publications

A vertical search engine, indexing 294 publications authored by members of the Coventry University Centre for Global Learning using *Python/BeautifulSoup* that collects and parses relevant publication data, and *Flask* to create a suitable web interface.

Multicategory Text Classification Application

A Python-based text classification system using *TF-IDF vectorization*, *sklearn* library, and *tkinter* interface that is able to classify headlines and keywords into generic categories such as News, Sports, or Business.

Comparative Analysis in Predicting Bank Term Deposit Subscriptions for Marketing Data

A machine learning classification finance project using Logistic Regression, Random Forest, and K-Nearest Neighbor, to analyze and classify client data used to predict bank account future default statuses.

QUALIFICATIONS

•	Data Analysis Expert Qualification Sarah Academy	Jun 2024
•	Complete Python Bootcamp from Zero to Hero <i>Udemy</i>	Aug 2022
•	Microsoft Azure Fundamentals in A.I. Microsoft	Jan 2022
•	Junior Project Management Certification Brainnest Consulting	Aug 2021
•	Creative Problem Solving & Decision Making EEP Spearhead	Dec 2017

SKILLS

- 3D modeling using SOLIDWORKS & AutoCAD.
- Data acquisition using POWER BI, Tableau, LabVIEW, SAP2000 & HAP30, Scikit Learning
- Programming Languages: Python, MATLAB, JavaScript, R, HTML, SQL and RobotC.

Soft Skills include effective written and verbal communication, teamwork, problem-solving, time management, adaptability, programming languages, data science, mechanical engineering, data visualization, and data-driven insights.