

# Abdul Karim Abbas

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## Education

University of Leeds

Sep 2021 - Present

*Computer Science and Artificial Intelligence BSc, MEng*

- Artificial Intelligence
- C/C++ Programming
- Computer Graphics
- Databases
- Information Visualisation
- Machine learning

AlFaris International School, Riyadh

Sep 2019 – Jun 2021

*International Baccalaureate (IB) Diploma*

- Achieved grade 37
- Computer Science HL (7), Business Management HL (6), Physics HL (5)
- Math AA SL (6), English Language and Literature SL (6), French AB (6)

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## Professional experience

PwC Middle East

Jun - Aug 2023

*Foundation for the Future, Technology Consulting Internship*

- Developed an invoicing tool to streamline processing between partners and vendors
- Utilised Google AppsScript and Google Sheets to automate data manipulation and tasks
- Deployed the project via a web app portal built with HTML, CSS, and JavaScript

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## Relevant university coursework

Third Year Individual Project

*Fine-tuning GPT-3.5 for Academic Support using Python and Data Augmentation*

- Employing web-scraping and data processing methods to collect relevant data
- Applying data augmentation techniques. e.g., synonym replacement and back translation
- Exploring the role of Generative AI and NLP in enhancing learning processes

Machine Learning Coursework

*Predicting cancer mortality rates in US counties*

- Designed a concise pre-processing pipeline addressing missing values and standardisation
- Implemented linear regression models for target value prediction
- Evaluated and validated model performance using Cross-Validated Mean Squared Error

Information Visualisation

*Data Visualisation Project*

- Executed a comprehensive data visualisation project to analyse and present the distribution of Olympic medals among the top-performing countries
- Python, Pandas, Matplotlib, and Seaborn for data manipulation and analysis

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## Skills

C/C++, Java, Python, JavaScript • HTML, CSS, Flask • NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, Hugging Face • MySQL, SQLite3 • Git, GitHub • VS Code, Visual Studio, Docker, Jupyter