# Muhammad Ali

Aspiring data analyst with a deep passion for transforming complex datasets into actionable insights. Proficient in Python, Excel, and SQL, focusing on data analysis, programming, and visualization. Brings a dynamic approach to problem-solving and eagerness to contribute to collaborative projects. Committed to continuous learning, excited about applying skills and enthusiasm for data analysis in a dynamic team environment.

## Work Experience

**Swansea University** – *Research Analyst (August 2022 - November 2023)*

- Trained 5+ analysts in identifying crucial metrics and data indicators for monitoring manufacturing performance
- Managed a team of analysts and researchers, propelling the enhancement of analytical tools and diversification of data sources, resulting in a 40% improvement in overall data quality.
- Coordinated and directed a multidisciplinary team to successfully deliver multimillion-pound projects.
- Slashed 67% of manufacturing costs by actively manipulating and analysing large datasets in SQL.
- Achieved 10+ scientific at various outlets, showcasing the impactful research outcomes, through compiling and formatting data insights

**MicroAnalysis Ltd** – *Data Analyst (December 2022 - October 2023)*

- Orchestrated high-impact consultancy projects with 5+ industry stakeholders, consistently surpassing expectations, whilst maintaining flexibility as requirements changed on a daily basis
- Employed data validation methodologies, leading to precise, data-driven decisions that significantly enhanced operational processes.
- Addressed stakeholder objectives by crafting comprehensive reports and presentations, conveying key insights.

**Swansea University** – *Research Associate (August 2021 - August 2022)*

- Drove dynamic collaboration across stakeholders and multidisciplinary teams, architecting an agile workflow that seamlessly spanned UK and international boundaries.
- Delivered a 2.5% increase in profitability by meticulously analysing datasets and uncovering pivotal insights and findings.
- Oversaw weekly reviews, orchestrating the analysis of complex data and fostering collaboration with multidisciplinary teams to generate key project insights
- Pioneered the prototyping of an integrated data acquisition system, reducing data acquisition speeds by 87.5%.

**Swansea University** – *Research Assistant (October 2020 - August 2021)*

- Generated a 29% improvement in performance metrics through the strategic development of Python scripts for data analysis
- Automated 5+ manual processes using Python scripts, reducing analysis time by 95%

## Projects

**Exploratory Data Analysis of US Adidas Sales**

- Created an interactive Excel dashboard using nested functions, VLOOKUP/XLOOKUP and Power Pivot
- Ensured data accuracy through thorough cleaning and validation of Adidas sales data from diverse retailers.
- Analysed retailer profits, highlighted disparities, and provided strategic insights for optimizing partnerships and performance.

**Data-Driven Optimization for Point-of-Care Hepatitis Diagnostics**

- Enhanced dataset quality for hepatitis diagnostics through meticulous cleaning and preparation, ensuring accurate and reliable analysis.
- Applied statistical methods and pattern recognition techniques to identify trends and correlations within diagnostic data to develop data insights.
- Generated comprehensive reports and data visualizations to effectively communicate findings to both technical and non-technical stakeholders, facilitating informed decision-making.

## Contact:

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- https://www.linkedin.com/in/mali939/
- https://munem939.github.io/portfolio/

## Education:

**Swansea University (2017 - 2023)**
*Engineering PhD*

**Swansea University (2014-2017)**
*Medical Engineering BEng*

## Certifications:

*Google Data Analytics Professional Certificate (2023)*

## Hard Skills:

Data Processing
Data Analysis
Data Visualisation
Report Writing
SQL
Excel
Python

## Soft Skills:

Analytical Thinking
Communication
Problem-Solving
Attention to Detail
Team Collaboration
Adaptability

## Tools:

MySQL
Microsoft Excel
Python
MATLAB
Tableau