

## Muhammad Ali

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### [Swansea University](#)

Lead Research Analyst (August 2022 - November 2023)

- Conducted data analysis to identify stakeholder challenges to formulate effective solutions.
- Spearheaded the planning and design of data projects, establishing clear objectives and methodologies, while supervising a multidisciplinary team to deliver public and internal projects.
- Led a team of analysts and researchers to enhance analytical tools and diverse data sources, ensuring effective analysis data capture and improved overall data quality.
- Used SQL to manipulate and analyse large datasets to generate insights, contributing directly to a 67% reduction in manufacturing costs.
- Utilised data visualisation techniques to facilitate project communication with non-technical stakeholders and efficiently track performance across projects.
- Compiled and formatted data insights, resulting in 10 published articles in various outlets.

### [MicroAnalysis Ltd](#)

Lead Data Analyst (December 2022 - October 2023)

- Led consultancy engagements with industry stakeholders.
- Collaborated with internal/external stakeholders for complex projects that had requirements changing on a daily basis.
- Applied analytical methodologies to formulate precise, data-driven decisions, resulting in the development of more efficient processes.
- Extracting insights from datasets and employing data visualisations to articulate and communicate findings effectively to non-technical stakeholders.
- Addressed stakeholder objectives by crafting comprehensive reports and presentations, integrating data visualisations such as contour plots and scatter plots to convey key insights and findings.
- Provided tailored solutions, utilising data analysis expertise and strategic guidance.

### [Swansea University](#)

Research Associate (August 2021 - August 2022)

- Collaborated with stakeholders and multi-disciplinary teams, and established a streamlined workflow across UK and international teams.
- Analysed datasets, extracting crucial insights and findings, contributing to achieving a 2.5% increase in profits.
- Developed visually impactful presentations and reports to communicate complex technical insights to stakeholders with technical and non-technical backgrounds.
- Adhered to ISO 9001 and ISO 13485 standards to deliver projects at varying phases.
- Conducted weekly reviews, analysing complex data and collaborating with multidisciplinary teams to generate project insights.
- Prototyped an integrated data acquisition system and provided handover to our applications team.

### [Swansea University](#)

Research Assistant (October 2020 - August 2021)

- Strategically orchestrated project workflows and documentation, optimising project delivery.
- Employed analysis tools and developed Python scripts for data analysis, contributing to a 29% improvement in performance metrics.
- Conducted in-depth research on data-driven projects, employing analytical techniques for insightful outcomes.
- Implemented data validation processes, ensuring accuracy and reliability for optimal decision-making.

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## Skills

SQL, Excel, Python, Tableau, MATLAB, Stakeholder Management, Project Management, Data Analysis, Data Cleaning, Data Validation, Agile Methodology, Word, PowerPoint, Critical Thinking, Strategic Planning, Team Collaboration

## Certifications

Google Data Analytics Professional Certificate (2023)

Swansea University - Engineering PhD (2017 - 2023)

Swansea University - Medical Engineering BEng (2014-2017)