

# Louis Othen

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## PROFILE

Enthusiastic Data Scientist with over 10 years' experience in the data space. Experience working in data analysis and visualisation, data analytics, data engineering, and data science including Machine Learning, feature engineering, exploratory data analysis and predictive modeling. Hardworking, a thirst for knowledge, and always looking to explore the possible and help others.

## SKILLS

- |                        |                   |                       |
|------------------------|-------------------|-----------------------|
| • Data Science         | • Power BI        | • Microsoft Dynamics  |
| • Machine Learning     | • Qlik Sense      | • Microsoft PowerApps |
| • Predictive Modelling | • Tableau         | • Microsoft Dataverse |
| • Data Engineering     | • JIRA            | • Databricks          |
| • Data Analytics       | • Confluence      | • AWS                 |
| • ETL, ELT, NLP        | • Bitbucket       | • Palantir Foundry    |
| • DevOps               | • Docker          | • Git, Bash, Linux    |
| • Python, Pyspark      | • Kubernetes      | • DAX                 |
| • SQL, SSMS            | • Terraform       | • Power Query M       |
| • R                    | • Microsoft Azure | • LLM                 |

## EMPLOYMENT HISTORY

### Senior Data Engineer

May 2024 - Sept 2024

Foot Anstey, Bristol UK

- Led the Data Engineering function within Digital Data and Technology (DDaT) Directorate's Task Flow scrum team as interim lead. Independently managed and executed critical data engineering projects during organisational growth to lay groundwork for future data initiatives. Successfully delivered until establishment of an in-house dedicated team.
- Data Migration:** Successfully executed complex data migration from MatterSphere to Microsoft Dynamics, leveraging Azure DevOps, Data Factory, SQL, and Dataflows. Overcame challenges posed by the complex business landscape to deliver a critical project.
- Business Intelligence:** Developed and implemented over seven advanced Power BI dashboards, providing actionable insights into firm's operations. Improved data-driven decision-making by collaborating with business stakeholders.
- Technical Proficiency:** Demonstrated expertise in Azure DevOps, Data Factory, DB, SQL, Microsoft Dynamics Power Platform, Power BI, PowerApps, and Git.

### Operational Research Data Team Lead

Aug 2023 – Dec 2023

UK Department for Environment, Food and Rural Affairs (DEFRA) London, UK

- Led high-performing team:** Managed a team of three Data Analysts delivering critical data solutions for the Northern Ireland Directorate's implementation of the complex Windsor Framework. Successfully navigated challenges in contract management, data supply, and stakeholder engagement.
- Architected data platform migration:** Spearheaded the transition from Palantir Foundry to Microsoft Azure Databricks and Synapse Analytics, ensuring seamless data migration and uninterrupted analytics.
- Delivered actionable insights:** Provided data-driven insights to inform policy decisions and mitigate risks associated with the Windsor Framework.
- Developed high-performing team:** Mentored and guided team members, fostering a collaborative and supportive environment.
- Technical expertise:** Leveraged advanced data science, data engineering, and data analytics techniques in R, Python, Pyspark, SQL, and cloud platforms (Palantir Foundry, Azure Databricks, Synapse, Data Factory).

### Lead Data Scientist

Oct 2022 - Feb 2023

UK Ministry of Defence (MOD), Submarine Delivery Agency (SDA), Bristol

- Built and led high-performing data science team:** Established a new data science team to drive data-driven decision making across the organization. Contributed to the development of the overarching data strategy.
- Developed predictive models:** Created advanced predictive models using machine learning to forecast submarine defects, optimizing resource allocation, and preventing critical failures. Delivered insights to submarine commanders, operations, logistics, and supply teams.
- Pioneered Palantir Foundry adoption:** Successfully implemented Palantir Foundry within the SDA, overcoming technical challenges, and training the team in its use. Established data pipelines and analytics capabilities to unlock data value.

- **Mentored and developed team:** Provided technical guidance, coaching, and training to the data science team, fostering a culture of continuous learning and development.
- **Technical expertise:** Demonstrated proficiency in Python, Pyspark, SQL, R, Git, and Palantir Foundry (Code Workbooks, Code Repositories, Pipeline Builder, Contour, Quiver, Object Explorer).

## Data Scientist

Jan 2022 - Jun 2022

UK Department of Work and Pensions (DWP), London

- **Led data science efforts:** Served as principal Data Scientist in a multidisciplinary team contributing to the RESTART initiative, aimed at reintegrating UC claimants into the workforce.
- **Developed predictive models:** Utilised NLP, topic modeling, and unsupervised machine learning to match claimants with suitable training programs, enhancing program effectiveness.
- **Uncovered significant fraud:** Involved in a critical fraud investigation, identifying millions of pounds in potential fraudulent UC payments. Findings were instrumental in informing targeted interventions.
- **Enhanced data-driven decision making:** Collaborated with business stakeholders to translate complex data insights into actionable recommendations.
- **Technical proficiency:** Demonstrated expertise in Python, Pyspark, R, SQL, AWS (Databricks, S3, Glue, Sage maker), Azkaban, Qlik Sense, Git, and Atlassian tools.

## Data Consultant

Oct 2021 - Dec 2021

Transparency, Ferndown, Dorset

- Supported clients in implementing Microsoft Azure data solutions (Databricks, Synapse Analytics, DevOps, Data Factory, Data Lakes) through data science, engineering, and analytics.
- Developed proficiency in SQL, Python, Terraform, and Power BI.

## Data Scientist

Sep 2019 - Sep 2021

Zurich Insurance, Fareham

- **Pioneered predictive models:** Developed a proof-of-concept model to predict listed building status, leveraging advanced techniques like topic modeling, deep learning, and XGBoost. Deployed an R Shiny application for stakeholder insights.
- **Revolutionized data processing:** Algorithmically processed vast Companies House data in three days, compared with nine years manually, improving efficiency by 99.9088%.
- **Mentored data science team:** Provided guidance and support to junior team members in methodologies, programming, and best practices.
- **Technical expertise:** Demonstrated proficiency in Python, Pyspark, SQL, R, and Azure cloud technologies (Databricks, Data Factory, Data Lakes, DevOps, Linux).

## EDUCATION AND CERTIFICATIONS

MSc Computer Science & Big Data Analytics – Distinction   Wrexham University	May 2024
Generative AI for Data Scientists   IBM Coursera	May 2024
DevOps Engineering   AiCore	Jan 2024
Generative AI Fundamentals   Google Cloud	Sep 2023
Advanced Data Analytics Certification   Google Coursera	Aug 2023
Data Analytics Certification   Google Coursera	Feb 2023
Certificate in Data Science – Distinction   University of Winchester	Aug 2021
Azure AI Fundamentals   Microsoft	Aug 2021
Azure Data Fundamentals   Microsoft	Jul 2021
Data Science Associate   DELL EMC	Aug 2019
Level 4 Diploma Data Analysis Concepts   BCS	Jun 2019
PRINCE2 Foundation Certification   AXELOS	Oct 2016
ITIL Foundation in Service Management   BCS	Aug 2016