

Rory P McCabe

MSc (Data Analytics)
BSc (Computer Science, Mathematics)

EMPLOYMENT HISTORY

Ofgem

Head of Data Insight (Interim) & Senior Data Business Analyst

2018–Present

- Created new RFI for Retail Team and Python script to clean and aggregate data from 100 energy suppliers for analysis and visualization
- Advised Market Intelligence and Oversight group on governance of pseudonymization and ingestion of ultra-sensitive data for fraud analysis
- Corrected source data and designed Power-BI business dashboard for multi-year switching standards dataset
- Designed metadata frameworks for business templates, scripts to apply them to existing Excel files and taught the economists how to run and maintain them
- Translated Price Cap data from embedded Excel functions to Python and SQL categorization
- Created and delivered Python and SQL courses to increase data awareness of the wider business community
- SME for ad hoc queries of the tariff dataset (740m+ rows)
- Designed multiple quick win solutions ranging from web scraping source data to financial visualizations
- Collaborated with data engineers in the creation and maintenance of Airflow pipelines
- Completed multiple career and skill tracks in DataCamp
- Helped to promote agile ways of working

Dell Inc. UK

IT Site Lead / IT Op. Analyst III / Technical Analysis Advisor

2005–2016

- CCNA & ITIL qualified IT site lead and escalation point with twelve years' experience of site management and service transition, specializing in metrics analysis and representing IT to the business
- Quantitative, qualitative and trend data analysis of regional and global Key Performance Indicators and customer satisfaction metrics
- Led the Glasgow Team to success to be continually in the top scoring sites in EMEA and globally for metrics and customer feedback
- Designed and presented European IT deck which passed external ISO9001 auditing
- Collated, analyzed and implemented server warranty refresh saving Dell over \$90K

Dell Ireland

Systems Analyst / NW Eng. Advisor

2000–2005

- Six Sigma and 3Com networking qualified member of LAN Team supporting 1000 + users
- Improved business processes in backup, asset management and security
- Assisted in designing network topology
- Technical writer and trainer

Lucent Technologies

Systems Engineer

1998–2000

- Organized, administered and performed PC Y2K remediation project
- Provided end users services including request management, LAN/WAN, telecoms, hardware, Windows and Unix, applications and account management
- Bronze and Silver awards for project management

University of Dublin, Trinity College
Senior Systems Programmer
1987–1998

- Customized over 100 PC applications to suit multiple department requirements including roll-out, upgrade and decommissioning
- SQL database administrator and translator
- Taught introductory and advanced courses in a wide range of applications in Trinity and gave seminars in UCD and careers workshops in schools
- Contracted to Irish Health Services, Concern and national television network (RTE)
- Editor of In-House IT magazine
- SME in braille printing system

EDUCATION

University College Dublin
2014 – 2017

MSc (Data Analytics) **1st Class Honours** 2017

Three-year postgraduate course incorporating cutting-edge software and modelling techniques, statistics, analysis and mathematics to give insights into large data sets, uncover patterns and make accurate predictions. Major topics included Data Mining, Predictive Analytics, Multivariate Analysis, Time Series, Monte Carlo, Bayesian Analysis and Statistical Machine Learning Algorithms

University College Dublin
1984 – 1987

BSc (Computer Science and Mathematics) 1987

Three-year degree incorporating programming, computer science and mathematical analysis and French translation together with grounding in chemistry, experimental and mathematical physics

St Brendan's College, Bray, Co Wicklow, Ireland
1978 – 1987

Irish Leaving Certificate (6 Honours) 1984

PROFESSIONAL DEVELOPMENT

CCNA
ITIL 4
ISO9001 Auditing
6 Sigma
3Com
Multiple DataCamp Career & Skill Track Certificates

STAKEHOLDER FEEDBACK

Covid RFI Project

- Overall

“Your support has been and continues to be of outstanding quality. You’ve always delivered what we had previously agreed in an effective and timely manner, flagging issues as appropriate. In addition to your vast technical knowledge, you’ve demonstrated very good communication skills, which have made it easier for our team to deliver these RFIs.

You demonstrated amazing dedication and reliability and worked very hard towards meeting our deadlines. You gave us very effective instructions around the data cleaning, helped me a lot with the coordination of the group of people helping with the manual cleaning and you managed to produce a script that aggregated the whole data set, including the retail and financial parts, in 3-4 days. This made possible for our teams to deliver our initial analysis to senior managers and also to share customized sets of data with external stakeholders (BEIS and EUK). You’ve continued relentlessly with this every week, introducing improvements and providing systematic advice, which is very much appreciated! I’m really glad to have you in the team working on the new Covid-19 Monitoring RFI.”

- Improving older RFI

“Returns under the old RFI were due on a weekly basis and from all suppliers, covering a large list of customer and financial indicators. Both the format and the contents of many of these submissions were flawed and data cleaning was really challenging at times and you have been there for our team every week, providing advice and taking care of the final cleaning of all data before performing the aggregation.

Every week you provided automatically aggregated files designed for various purposes, making our task of data sharing with external stakeholders much easier.

You also supported our work on tracking suppliers’ compliance with submissions by taking the initiative of producing heat maps, which were very helpful.”

- New RFI design

“You assisted from the very beginning to the end on the task of designing the templates for the new Covid-19 RFI. At the start, you managed the expectations of all parties involved well and clarified what could and could not be done.

I really enjoyed discussing the new templates with you – it was amazing how you could understand our requirements and translate them into a template format doing what we wanted (limit format and content errors in submissions). This was a clear testament to your flexibility and ability to listen to the users’ needs and provide an effective response.

The templates have been in place for a while now and I must say that they work really well. As a result, the data quality has improved and the time required to clean and process the information has gone down dramatically.”

- Working on new RFI

“The scope of the new Covid-19 RFI that entered into effect in August is narrower and the frequency was reduced from weekly to fortnightly/monthly. You made the transition from the old to the new RFI very easy for us: you rapidly adapted the aggregation script to the new templates and produced the initial new aggregated data files less than one week after the first submission from suppliers.

The routine data processing work of the new Covid-19 RFI seems to have reached a comfortable steady state, thanks to the new templates and your effective contribution: data cleaning takes just a few hours from 2-3 people from our team, you continue to review/complete that cleaning and then deliver the aggregated files and the heat maps in one day or even less.”

“I feel that having you on the team makes us well prepared for any sudden adjustments that may affect information templates and processing!”

Monica Gandolfi, Senior Economist, Retail Monitoring

“You were able to take into account the issues and problems of the previous RFI and create an efficient, streamlined process for aggregating and analysing the new information. You have been able to aggregate the data in a timely manner, creating numerous files for different external audiences, again saving our team time and resources. If we have any questions or queries, you’re always very approachable and visible online. Overall, I’ve been really impressed with ability to continually improve and innovate the processes in the RFI.”

Lewis Edgar, Economist, Price Cap Implementation

RIIO ED2 Project

“Rory has been really interactive in the BPDT transformation process providing feedback and questions on the tables. This has been useful. Rory provided a presentation on descriptors to the team which was very informative and provides a great foundation for creating an ED2 data dictionary in which it will help to structure/extract the correct data for ED2 Cost Assessment”

Dheeraj Viswanath, Economist, Electrical Distribution, RIIO

“I have worked with Rory on handing over RIIO2. Given this was a review of more than 1 years’ work on a spoke with 4-5 people I was impressed by how quickly Rory came up to speed. For ED2 this was a handover of the business draft BPDT and with walk-through of the transformation process and documentation including metadata frameworks, Python code, outputs and exemplars. Again, Rory took the initiative by choosing a worksheet to create the required artefacts and transform the data, which he concluded successfully with no assistance.

Rory also took the opportunity to point out issues with the documentation and correct where required. I am really impressed at how quickly Rory has picked up the process and artefacts given that it took the RIIO spoke members several iterations and close coaching with Jon Dowling to come up to speed.

In response to a user request Rory compiled a slide pack to explain the components of the metadata framework and how these relate to the BPDT worksheets and the final output csv. The presentation to the user group was well received. Rory has built a good relationship with the users who respect his opinion.”

Liz Johnston, Data Services

MIO Broker Data Project

“Rory is an excellent communicator and has good knowledge of data services practices. He also has experience in coding in Python and a good understanding of statistics and data structures. His ability to summarise and action work needed to ingest data into the hub mean that he suits projects where work needs to be scoped and data is still in its rawest form.

A wizard with words and an ability to engage members of Ofgem at every level I think he would be excellent helping with comms and steering engagement with other teams to understand data available within Ofgem that could be moved to the data hub.

Rory joined the MIO team during the alpha phase of the project. He played a key role as a data BA in the team through a number of tasks. Rory advised on the template that went out to brokers – this resulted in a drastic change in the quality of data brokers are now submitting, reducing the burden on the MIO team and data services for processing these data. Rory validated a reduced dataset using bespoke python scripts he wrote – providing automated checking of the manual checks made by the team. He was the main coordination point between the spoke and hub for data services and created dummy data that enabled the development of a pipeline in the hub and supported the hub with questions on database names. Rory also wrote up stories and defined epics for both the alpha and beta phases of work.

In short, Rory was a key player in keeping the Spoke and Hub aligned and driving the alpha phase of work for the MIO team. Rory needs to be at the forefront more. He is eloquent and knowledgeable on data but needs to lead more. Rory is a pleasure to work with which has been really valuable on a project that often faces uncertainty.”

Anushka Fernando, Consultant Data Scientist

“Rory helped initially show what is possible regarding validation checks (pre-spoke) and then created the code to automate the processes we came up with (including new rules invented during the process). He also successfully explained the code to the rest of the team and demonstrated how it can be used by the team, which I found very useful.

He has been key in our communications with the Hub team, which is vital for our spoke going forward as we move to getting our data ingested. He was well engaged in the project. Showing me how to run a Python script was very useful and he helped me understand how the validation stuff worked. We discussed what was needed for validation of the raw data and refined the rules to fit what the team needed. Based on the key themes we identified, he created a backlog of Beta tickets, which is a very helpful starting point for us going ahead. He communicated key issues arising that affect us from wider Data Services.”

Ashley Lawrence, Senior Economist, Market Intelligence and Oversight