

## Mark O’Gara.

### Experience.

- Jan. '17—Present*     **Senior Data Analyst, Glanbia.** *CoE for BI & Data Analytics, Global Technology Centre, Kilkenny.*
- Worked with a business unit to develop an interactive tool in Tableau to provide a historic basket view of net margin by customer at a material level. The tool and accompanying analysis were used to identify business action to influence customer basket profitability, leading to savings of €540k in 2018 and the award of a major new food service contract.
  - Wrote a Python module to extract, clean and transform data from .pdf documents e-mailed daily by a large Irish multiple. Output from this module was imported to a SAP business process developed by Glanbia’s e-services team to automate returns documents in production, leading to savings of €35k p/a.
  - Wrote and automated a weekly ETL pipeline in R to move flat file sales data sent by multiple customers and distribution partners (including aggregated competitor data) into Hive tables in Hadoop. Designed and developed a series of Tableau Online dashboards for iPad using this data to communicate patterns, trends and market share insight for our sales teams and senior management.
  - Expanded our ETL project by incorporating sell-in, sell-out and stock/inventory levels for our finance and marketing teams. Worked as part of a team to leverage our Hadoop data lake by connecting to a partner API for full stack pipeline automation, including daily data refreshes of Tableau Online using Python and Tableau Bridge.
- Jul. '14—Jan '17*     **Data Analyst, Glanbia.** *CoE for BI & Data Analytics, Global Technology Centre, Kilkenny.*
- Analysed multiple years of SAP QM and MM data to accurately measure ‘right first time’. Developed a series of dashboards to demonstrate the impact of seasonality on raw materials and calculate the probability of meeting customer specifications at different times of the year. This project was described as ‘game-changing’ by a senior milk planning manager in 2016.
  - Modelled Glanbia’s milk collection network over multiple years using R, identifying c. €500k p/a saving by matching supplier’s historical milk constituent profiles with optimum production facilities at non-volume critical times of the year. A pilot version implemented in 2016 led to a €75k p/a saving.
  - Analysed multiple years of POS data from a B2C retail partner using R. Developed a series of Tableau dashboards to communicate insight to senior stakeholders, resulting in Glanbia’s appointment as a ‘Category Captain’ for another large B2C retail chain. Awarded ‘Customers’ Champion’ by Glanbia’s CEO at a town hall event in 2016 for my work on this project.
  - Worked as part of a team to analyse stock adjustment patterns for a range of SKUs using clustering and regression analysis in R. Production changes made as a result of this analysis reduced out-of date stock loss by over 50% at two sites (€120k p/a) and helped to initiate a MES linked stock adjustment count. This project was a finalist at the ECR Supply Chain awards in October 2015.
  - Worked as part of a team to model SLA compliance by extracting perfect order index data to train, test and validate a logistic regression classification model that predicted groups of late deliveries with 50% accuracy – based only on variables known at the time of order creation.
- Mar.—Jul. '14*     **Software Developer (Internship), Riffstation.** *Dogpatch Labs, Dublin 2.*
- Worked as part of a software development team using an Agile methodology to code JavaScript modules integrating client-side interactions with server-side JSON. Defined use-cases, developed paper and digital prototypes, and assessed UI patterns for a web version of existing desktop software.

## Other Work.

- 2009—2013 **Owner, O’Gara Architects.** *Portarlinton, Laois.*
- Member of the RIAI and the National Register of Architects, responsible for the design, execution and management of a range of work including all financial, client and building contract administration.
- 2004—2009 **Associate & Senior Project Architect, Cooney Architects.** *32 The Coombe, Dublin 8.*
- Design team lead responsible for managing multi-million Euro works from inception to completion, analysing policy and legislation, managing clients and administering building contracts.
- 2002—2004 **Architect, Architecture Studio.** *75012 Paris, France.*
- 1999—2002 **Project architect, Marcel Breuer Associates.** *75003 Paris, France.*
- 1998—1999 **Architect, Keane Murphy Duff Architects.** *South City Quay, Dublin 2.*

## Education.

- 2013—2014 **Higher Diploma in Computing (Data Analytics) (1.1 Hons.)**  
*Dublin Institute of Technology School of Computing, Kevin Street, Dublin 8.*
- Modules* Data Analytics, Probability & Statistical Inference, Advanced Databases, OO Software Development, Systems Analysis & Testing, Information Systems, Web Development & UI Design, OS & Networks.
- Dissertation* ‘Probable Outcomes in Indian Premier League T20 Cricket’ – wrote custom web scraping modules in Python, carried out statistical analysis, PCA, data sub-setting and classification modelling using R.
- Awards* DIT School of Computing ‘Best Higher Diploma in Computing Dissertation’ (Zynga Prize, 2014).
- 1992—1998 **Degree & Diploma in Architecture - Dip.Arch., B.Arch.Sc. (Hons.)**  
*Trinity College Dublin & Dublin Institute of Technology, Bolton Street, Dublin 1.*
- Modules* Computing, Design Studio, Design Technology, Contract Law, Urban Design, Engineering, Economics & Cost Control, Professional Practice, Civilisation Studies.
- Affiliations* Member of the Royal Institute of the Architects of Ireland and National Register of Architects.

## Abilities.

- Management* Demonstrable leadership track record delivering project results by engaging with senior stakeholders across diverse multi-functional teams. Enjoy working as part of a team and mentoring the development of junior team members by adopting an inclusive approach to decision making.
- Communication* Confident and articulate presenter with excellent communication skills developed through the delivery of material to project stakeholders, senior managers and clients. Presented a summary of our 2018 data analytics work to hundreds of employees at a Glanbia town hall event in 2018.
- Data Analysis* Extensive experience analysing data using R (Tidyverse & GGPlot), Python (NumPy & Pandas) and Git version control. Intuitive understanding of data structures, schema design and optimal data formats for real-world applications using the Apache ecosystem (Hadoop, Hive, Spark, Ambari). Experience using classification modelling (regression, bagging, boosting, decision trees/random forest etc.).
- Software* Extensive experience designing and developing with RStudio, Tableau Desktop, Tableau Online and Tibco Spotfire, using SAP BW and BeX for query design and data extraction, and developing performance management reports in production in SAP Business Objects (WebI)
- Languages* Very comfortable using R, Python, SQL, JavaScript, d3.js, HTML and CSS. Fluent in French, lived in Paris from 1999—2004. Studied German for my Leaving Certificate, lived in Berlin from 1995—1996.