

Liberace Insurance

Job Title	Data Scientist
Department	Actuarial – Pricing
Location	Dublin
Reports To	Pricing Manager
Job Summary	Provides predictive modelling and advanced analytics services to key functions across the organisation
Background	As Liberace Ireland (LI) builds its analytical capability this Data Scientist role will leverage the large Data Science community in our US business and the new team in London as well as our actuarial team in Dublin to develop their own skills and to deploy best practice approaches to data management and advanced analytics.

Key Tasks & Responsibilities	<ul style="list-style-type: none"> • Apply sophisticated, cutting-edge statistical techniques to very large data sets in the course of predictive modelling, business problem solving and various analytical projects. Examples of the techniques include Decision Trees, Clustering, GLM, Boosting, Neural Networks, Text based analytics • Build complex tools and analytical models for use by business operations and/or functional groups (e.g. Pricing, Underwriting, Marketing, Claims etc.) • Produce meaningful observations and recommendations through synthesizing data from internal and external sources. (E.g. economic, weather, customer sat, social media activity, etc.) • Present findings / recommendations to management • Perform data preparation steps, including extraction of target data from multiple databases, integration of multiple datasets, and creation of derived variables, application of business rules, and quality control checks • Collaborate with other advanced analytics staff to share best practices in predictive modelling and build the advanced analytics community
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Personal Specification

Qualifications	<ul style="list-style-type: none"> • Master's degree or above in Mathematics, Computing, Statistics or another quantitative field • For non-Masters' Degree candidates, Bachelor's Degree (minimum 2.1) and proven applied business / non-academic experience
Experience & Knowledge	<ul style="list-style-type: none"> • Experience / understanding of using statistical and mathematical techniques e.g. regression analysis, cluster analysis and optimisation • Identification of relevant statistical techniques for addressing various problems • Interpretation of results mathematically and strategically • Strong technical background; comfortable with programming and / or use of statistical software packages (SAS, R, Python, Emblem) and Excel

	<ul style="list-style-type: none"> • Ability to identify and communicate limitations of tools and methods • Knowledge of data sources, tools and business drivers Understanding of the insurance industry, including external influences and internal functions
Competencies	<ul style="list-style-type: none"> • Effective communicator with the ability to generate and present insights in a way that can be clearly understood by both technical and non-technical audiences • Able to plan own work to meet deadlines • Ability to adapt to evolving techniques and changing business challenges • Ability to find creative solutions to problems • Highly motivated to deliver consistent high performance • Good interpersonal skills, works closely with other individuals / teams to achieve goals • Seeks to maximise the benefits of a team focussed organisation and supports collaboration • Able to collect, analyse and challenge technical information • Distils complex quantitative and qualitative information into key facts and makes well-reasoned recommendations to management