Alexander Scott

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# SENIOR DATA SCIENTIST

## Insurance Pricing § Data Modelling § Data Optimisation

Skilled data scientist with eight years experience in the insurance sector. I take a meticulous approach to my work. Being naturally inquisitive I enjoy problem-solving, and reading about the latest tech trends; as well as networking with other industry professionals to expand my knowledge.

# Technical Skills

**OPERATING SYSTEMS** Windows, Linux and Mac

**PROGRAMMING LANGUAGES** R, Python, PySpark and SQL

Jupyter Notebooks

Azure Data Factory / Azure ML/ DataBricks

**VISUALISATIONS** Tableau/Looker/PowerBi/ Maps

Plotly (in R/Python)

**CLOUD PLATFORMS** Azure

AWS

Custom-built platforms built on Linux-based servers

# Work Experience

**Senior Analyst / Data Scientist** September 2022 – February 2023

**Marker Study** – *Haywards Heath*

I primarily focused on data optimisation and efficiency to improve existing workflows and enhance productivity. This I achieved by building a new pipeline and modifying existing ones. In addition, I assisted with machine learning and modelling.

* Daily Automation – Scheduling jobs via DataBricks – CLI – Python – Run through Radar Push back to DataBricks (For market insight and further use in PowerBi, etc.)
* Modelling (Radar and Python) – Risk severity, frequency and conversion (Motor market)
* Hyperparameter tuning insights

**Data Scientist** March 2021 – September 2022

**ERGO Insurance** – *London*

I worked on data optimisation and automation and was involved in client management to migrate data to a centralised system.

* Client migration from SFTP & Emails to Sharepoint for claims and sales data (BDX csvs)
* Assist in the setup of the new Azure Ecosystem – Mainly Synapse, ADF and Azure ML
* Creating Web scrapers for comparison websites such as MSM and GoCompare to deliver to the pricing team to give insight on our prices against the market
* Exploring Geospatial data for high-risk areas in Travel – using open source data and using R to create maps to highlight these

**Pricing Analyst | Data Sophistication Advisor (Contract)** November 2020 – February 2021

**Carbon Underwriting** – *London*

I worked in a small team which was involved in building infrastructure and creating data pipelines which optimised existing workflows. I updated their tech stack and developed catastrophe models.

* MI migration from PowerBI to Looker for external and internal stakeholders
* Creating Looker dashboards
* Migration to Azure for the data architecture
* Exploring other solutions for insurance claims Triangles (Python based)
* Earthquake data in Italy and Canada mapped to provide insight into high-risk areas (written in R and Looker)

**Optimisation Pricing Analyst** March 2017 – November 2020

**AXA Insurance** – *London*

Worked on pricing optimisation using open-source tools to improve machine learning and reduce costs. I also advised on different lines of business for tech stack and created maps for risk modelling.

* Migration from an internal cloud-based system (Linux) towards Azure to support a heavier data load
* Resourcing big data in a concise form to internal stakeholders (60 million quotes daily in the motor market reached AXA)
* Research into alternative pricing models – a move away from Towers Watson to open-source tools such as R and Python to generate conversion models more effectively
* Generating Maps for the Housing insurance team to identify risks by region (written in R)
* Presented a talk in Paris on Bayesian Optimization (as an alternative to grid search) to the wider global AXA Data teams

**Data Analyst** May 2015 – February 2017

**Which?** – *London*

Assisted the editors with sourcing data for their use in articles.

* Scraping data for University and NHS websites for the team to perform analysis – for example, the NHS standards of various trusts and care homes. data from University and NHS websites for the team to perform analysis – for example, the NHS standards of various trusts and care homes.
* Mapping in R to show regions based on various metrics
* Lead a Data Dive project in Bristol to find the best solutions to current industry practices.

# Education

**MSc. Applied Statistics and Data Mining**

**University of St. Andrews** | *September 2013 – September 2014*

**BSc. Honours Economics**

**University of Glasgow** | *September 2009 – June 2013*

# Hobbies

Swimming § Muay Thai § Gymnastic Rings § Reading