

# ALEXANDRA SPENCER

## Data Science & Analytics

Background in law, banking and asset management

### PORTFOLIO

#### ProjectHack 8 Hackathon - 3rd Place

- Power BI dashboard tracking materials prices
- Scraped and fed to machine learning algorithms for future pricing
- Created the web-scrapers - available at: <https://bit.ly/2P7U7o6>

#### IBM Data Science Professional Certificate Final Project

- Scraped rental property data from Aberdeen Solicitors Property Centre
- Used a variety of tools to analyse and visualise the data
- Created maps showing how venue locations impact rental prices
- Notebook available at: <https://bit.ly/3tPzUSC>

#### MSc Data Science Application Showcase

- Jupyter notebook created in support of my RGU MSc Data Science application
- Showcases four data visualisation and analytics exercises
- Includes a choropleth map, regression and pipeline objects
- Notebook available at: <https://bit.ly/2Pw7tu0>

### EXPERIENCE

#### Robert Gordon University | Research Assistant

Fixed Term Contract | Feb 2021-Present

- Project: intelligent system using computer vision and machine learning to detect cardiovascular disease
- Analyse and understand the existing software and its capabilities
- Find solutions for floating licence activation and implementation of Python solutions developed by the research team

#### Aberdeen Standard Investments | Investor Operations Analyst

Fixed Term Contract | Jul 2018 - Jan 2020

- Fully overhauled a banking oversight process reducing processing time by 84%
- Initiated a large standing data correction project covering 900+ share classes and 3 automated dealing systems through in-depth data and flow analysis
- Daily analysed trading data and generated executive level reporting
- Identified error trends in processes and pursued business improvements
- Supported the Operations Manager with high level flows management

#### Lloyds Banking Group | Senior Client Relations Advisor

Permanent | Jan 2014 - Jul 2018

- Client meetings reviewing all retail and business banking products
- Rebuilt a sensitive client relationship and attracted their £300k+ business within 4 months

### EDUCATION

#### Robert Gordon University | Master of Science Data Science

2020-2021 (Expected)

#### Aberdeen University | Master of Laws in Oil and Gas Law

2011-2012 | Commendation

- Specialised in international contracts and environmental law

#### Babes-Bolyai University | Bachelor of Law

2007-2011

>>>>This CV was entirely created in Python. Full code available:

Aberdeen

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[www.github.com/alex-spencer03](https://www.github.com/alex-spencer03)

### Skills

- Python, R
- Data Scraping & Cleaning
- Data Visualisation
- Statistical Analysis
- Machine Learning
- Computer Vision
- Jupyter, IBM Watson, RStudio
- SQL, SSAS, MDX
- Power Query, Pivot, DAX
- NoSQL: Neo4j, Cypher
- Process Improvement
- Client Management

### Certificates

- IBM Data Science Professional Certificate (Aug 2020)
- Yellow Belt Lean Sigma (Aug 2019)

### Competitions

- ProjectHack 8 | 21-22 March 2021
- 3rd place
- Video pitch: <https://bit.ly/3tRpIcd>

### Trivia

- Crochet enthusiast who loves a good book, barbeques and the outdoors
- Can hold a golf club
- Grew up on a military base