Data Engineer

You will work closely with our clients and Data Scientists to transform and construct features which feed directly into our data science and machine learning modelling approaches solving real world business problems. Our Data Engineers lay the foundations for the Data Science process and analysis, changing raw data into tidy data. This role will allow you to gain knowledge in building data pipelining, wrangling and feature engineering all whilst being exposed to the latest techniques.

Technology Stack

- Spark
- Scala
- Python
- SQL
- Graph & NoSQL
- AWS, GCP, Azure & Databricks

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Intelligence,
Beautifully engineered.
QuantumBlack helps companies use data to drive decisions. We combine business experience, expertise in large-scale data analysis and visualisation, and advanced software engineering know-how to deliver results. From pharma to finance to Formula One, we help companies prototype, develop and deploy bespoke data science and data visualisation solutions to make better decisions.

Role Responsibilities

/ Work with our clients to model their data landscape, obtain data extracts and define secure data exchange approaches
/ Acquire, ingest, and process data from various sources and systems into Big Data platforms
/ Work within multi-disciplinary teams to solve business problems through data analysis
/ Maintain our Information Security standards on all engagements
/ Collaborate with our Data Scientists to map data fields to hypotheses and curate, wrangle, and prepare data for use in their advanced analytical models
/ Defining the technology stack to be provisioned by our infrastructure team
/ Use new and creative techniques to deliver impact for our clients as well as internal R&D projects

Requirements

/ Commercial client-facing project experience is helpful, including working in close-knit teams
/ Solid experience with at least two of the following technologies: Python, Scala, SQL, Java
/ The ability to work across structured, semi-structured, and unstructured data, extracting information and identifying linkages across disparate data sets
/ Good experience in multiple database technologies such as: Distributed Processing (Spark, Hadoop, EMR), Traditional RDBMS (MS SQL, Oracle, MySQL), PostgreSQL, NoSQL (MongoDB, DynamoDB, Cassandra, Neo4J, Titan)
/ Experience and interest in Cloud platforms such as AWS, Azure, Google Platform or Databricks
/ Ability to clearly communicate complex solutions

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Data Scientist

You will bring an exceptional academic background in a technical field combined with experience in developing and applying data science methods in a commercial context. You share our curiosity for new methods and technologies, and our enthusiasm for data science challenges. You are able to communicate complex analytics concepts in a clear and concise manner to business leaders.

Technology Stack

- R
- Python
- Scala
- Machine Learning
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**Role Responsibilities**

/ Help to drive the analytical scope and method for projects, including formulating and shaping the models

/ Use maths, stats and machine learning to derive key insights across various industry sectors including formula 1, pharma, automotive and high-tech.

/ Write highly optimised code to advance our internal data science toolbox

/ Develop world-class data science products for clients as well as for our data science team

/ Work on complex data sets from some of the world’s largest organisations

/ Work in a multi-disciplinary environment mixing highly skilled people in data science, data engineering and design

/ Build strong links with the academic world and constantly share ideas, staying ahead of the curve on the latest methods

**Requirements**

/ Experience in statistical modelling or machine learning

/ Experience in applying data science methods to business problems

/ Programming experience in at least 2 of the following languages: R, Python, Scala, SQL

/ Educated to an MSc or PhD level in the field of Computer Science, Machine Learning, Applied Statistics, Mathematics

/ Strong presentation and communication skills, with a knack for explaining complex analytical concepts to people from other fields

/ Team leadership, mentoring and project management skills

/ Proven application of advanced analytical and statistical methods

/ Knowledge of distributed computing or NoSQL technologies is a bonus

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Machine Learning Engineer

You are a software engineer with a deep interest in analytics and data science, who knows how to engineer beautiful code and want to work on dynamic data science projects across multiple industries.

Our Machine Learning Engineers are keen problem solvers who like to use technology to tackle complex analytical problems while working in a highly collaborative and multi-disciplinary team of Data Scientists, Engineers and Designers.

Technology Stack

- Python
- Spark
- Machine Learning
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<table>
<thead>
<tr>
<th>Role Responsibilities</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work closely with Data Scientists and Data Engineers to productionise and deploy machine learning models</td>
<td>MSc or degree in Computer Science or another relevant subject</td>
</tr>
<tr>
<td>Choose and use the right analytical libraries, programming languages, and frameworks for each task</td>
<td>Coding skills in Python, experience with Pandas, Scikit-learn, NumPy, Matplotlib is beneficial</td>
</tr>
<tr>
<td>Produce high-quality code that allows us to put solutions into production</td>
<td>Practical experience with machine learning methods, such as Linear Regression, Decision Trees, Random Forest, Deep Learning</td>
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<tr>
<td>Refactor code into reusable libraries, APIs, and tools</td>
<td>Deep understanding of good software engineering principles</td>
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<tr>
<td>Help us to build the next generation of our products</td>
<td>Knowledge of technologies like Spark, Hadoop/MapReduce is desirable but not essential</td>
</tr>
<tr>
<td>Rotate between client project work and internal product development</td>
<td>Good knowledge of testing frameworks and libraries</td>
</tr>
<tr>
<td>Work with the guild leadership to set the standards for software engineering practices within the machine learning engineering team and support across other disciplines</td>
<td>Experience with a range of database management languages e.g. SQL, PostgreSQL</td>
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</tbody>
</table>

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