Job Description:
Data Engineer

Job Title	Data Engineer	Location	London
Reports to	Head of Analytics	Job Code	DE1

Core Purpose of the Role

This role is responsible for building, testing, automating and maintaining the data architecture of the company, acting as an expert on technical matters and data sets available to the organisation and its clients. It is also responsible for the management and ongoing development of the organisation's data assets relating to its AI models, with direct responsibility of managing the flow of data, feature creation and model scoring. The role will be heavily involved in the overall prediction model and API development lifecycle.

Position in Organisation

Reports To: Head of Analytics

Budget Responsibilities: N/A

Principal Accountabilities

Some of the main responsibilities of this role include but are not limited to:
- Designing, constructing, testing, automating and maintaining architectures and processing workflows
- Building robust, efficient and reliable data pipelines
- Integrating existing and new datasets into current inbound and outbound data pipelines (e.g., via APIs)
- Supporting the effective development and deployment of new products such as dashboards, live reports and AI models
- Driving the collection of new data and refinement of existing data sources
- Managing, developing and documenting data and software quality controls for all data engineering activities, including data mapping across systems
- Ongoing development and documentation of data engineering methods and tools to transform data into suitable structures for analysis.
- Managing a structured testing programme for data workflows and data engineering tools developed and deployed by HN.

Key Performance Indicators

- Achievement of KPI's agreed with the Head of Analytics, related to key elements of the role.

Values and Behaviours

- HN is a values-driven organisation, and therefore, the job holder will be expected to live the values of the organisation and integrate these values into every aspect of their role. This role is specifically important in respect of Culture and Values and therefore must be a role model in demonstrating the organisational values within their own individual role.

Skills, Knowledge and Experience

	Criteria
Skills and Abilities	• Clear and concise written and spoken communication skills. • Excellent listening skills • Precise attention to detail • Ability to work as part of a team. • A high level of self-motivation and a flexible approach • A positive attitude and be naturally caring and compassionate. • Ability to make autonomous decisions within the remit of the role. • Ability to multi-task and think creatively when confronted with a new situation. • Ability to work with the highest levels of confidentiality and integrity. • Ability to manage, prioritise and organise own workload and use initiative. • Ability to collate, analyse and interpret extremely complex datasets. • Ability to explain complex analytical methods to non-analytical people
Experience	• Experience in designing, developing and managing data warehouses or other complex relational databases. • Experience in designing, developing and managing ETL Processes. • Experience in using Power BI and creating reports/analysing data using it. • Extensive experience in analysing complex datasets effectively in a variety of settings. • Experience in working with and combining data contained within different data sources. • Extensive experience of complex code (e.g., SQL, Python, Java or C#) to include the development of scripts, functions and procedures. • Experience in using and building Azure or other cloud-based solutions. • Experience in supporting and enabling AI technologies • Experience in developing and managing ETL processes. • Experience with software development practices including source control, unit testing and agile methodologies. • Experience with working with sensitive data or data in a health care environment
Knowledge	• MA/MSc/PhD in Computer Science, Computer Engineering, Information Systems, Data Science or a related quantitative discipline. • Good understanding of the NHS environment • Good knowledge of Microsoft Office (Word and Excel)

Health and Safety

- The post-holder will maintain their personal responsibilities under Health and Safety at Work Regulations, and compliance with the company Health and Safety Policy, ensuring safe working practices and the recommended storage of equipment, including but not exclusive to:
Electricity at Work, Manual/Object Handling, Provision and Use of Work Equipment, Fire Precautions, Personal Protective Equipment, Reporting of Injuries

Additional Information

- This role description is not intended to be exhaustive in every respect, but rather to clearly define the fundamental purpose, responsibilities and dimensions of the role. Therefore, this role description does not describe any individual post holder.
- In addition to the contents of this role description, employees are expected to undertake any and all other reasonable and related tasks allocated by line management.
- HN is fully committed to safeguarding the welfare of all vulnerable individuals and groups and takes all reasonable steps to protect them from harm. All staff will receive appropriate training and induction so that they understand their roles and responsibilities and are confident about carrying them out.