Data Engineer

Reports to: Head of Data Science & Insights
Works closely with: Head of Data Science & Insights, Recruitment and Performance teams, Coaching staff
Purpose/overview of the role: At Paradigm Sports Intelligence, you will work directly with Ipswich Town Football Club. Based at the club's training ground, you will be a key part of the Paradigm team that delivers crucial data science and insights to support decision-making across all aspects of the club. In this role as a Data Engineer, you will work closely with data science and analysis staff to build and maintain the data infrastructure that supports insight generation across the club. You will play an integral role in designing robust, automated pipelines that ensure efficient data collection, ingestion, storage, and processing — enabling timely analysis and reporting for stakeholders across the organisation. The ideal candidate will have strong Python programming skills and experience with cloud-based data engineering. You should also possess strong general programming and problem-solving capabilities, with an interest in data science or analysis and a willingness to contribute across the full data pipeline. While data engineering will be your primary responsibility, you should also have the ability and willingness to support other areas of the data science pipeline when required. The successful candidate should have a strong academic background, holding at least a 2:1 degree in Computer Science, Data Engineering, or a related field. Equivalent industry experience will also be considered, and previous experience working in the football industry is desirable. Areas of accountability: • Data Pipeline Development: Design, implement, and maintain automated data pipelines that ingest, process, and store football data from multiple sources. • Cloud-Based Data Storage and Infrastructure: Ensure reliable and scalable data storage solutions using modern cloud platforms. • Data Integration and Processing: Manage the ingestion of structured and unstructured data, ensuring consistency and usability for downstream analysis. • Performance and Efficiency Optimisation: Monitor and optimise query performance, ensuring timely access to data for decision-making. • Data Quality and Governance: Implement processes to ensure data integrity, validation, and consistency across all datasets. • Collaboration and Cross-Department Support: Work closely with analysts and stakeholders to ensure that data is accessible, well-structured, and supports business needs. • Version Control and Best Practices: Maintain reproducible, reliable codebases using version control and industry-standard engineering practices.

Accountabilities (duties):	Key Performance Indicators (what good looks like):	Skills and experience required:
Development and maintenance of automated data pipelines	Data updates occur on schedule with minimal downtime	Proficiency in data engineering with Python (Pandas, NumPy, PySpark/Parquet). Knowledge of extract, transform, load pipelines.
Integration of APIs and other sources of data	Seamless integration of multiple data providers and data sources	Experience with a variety of data sources, including APIs, different file types, web sources, etc.
Cloud-based data storage and management	Secure and efficient storage of raw and processed data	Experience with cloud-based data storage and databases (e.g. AWS, Azure, Google Cloud, Snowflake, BigQuery, Redshift)
Ensuring data quality and consistency	Clean, deduplicated, and structured data available for analysts	Strong SQL skills for data querying and transformation
Performance monitoring and optimisation	Queries and processing jobs run efficiently without bottlenecks	Knowledge of database indexing, query optimisation
Version control and reproducibility	Code is well-documented, trackable, and manageable	Experience with Git or other version control systems
Collaboration with analysts and stakeholders	Effective communication and support for data-driven decision-making	Strong problem-solving and teamwork skills
(Desirable) Contribution to data science workflows	Involvement in exploratory analysis and model building	Interest in data science, machine learning, and statistics. Experience with analysis software such as Power Bi or Tableau also beneficial.
Training Requirements:	Essential:	Desirable:
Does the role require DBS	Y	

Equality, Diversity and Inclusion:
Will demonstrate a positive commitment towards equality, diversity and inclusion by treating others fairly and not committing any form of direct or indirect discrimination, victimisation or harassment of any description and to promote positive working relationships between all internal and external stakeholders.

Safeguarding:
Paradigm Sports Intelligence is committed to safeguarding the welfare of children and adults at risk and requires all employees to share this commitment and promote the welfare of these groups. Appointment to this role is subject to a satisfactory Enhanced DBS Check (with children's barred list check) and references.