Data Analyst / Quality Engineering

Location:Sparks, US

Job Type: Full-time

Job ID: 193624

REFERAPPLY

Roles

Tesla's mission is to accelerate the world's transition to sustainable energy. We are committed to hiring the world's best and brightest people to help make this future a reality. Every Tesla is designed to be the safest, quickest car in its class—with industry-leading safety, range and performance. Quality Engineering team plays a key role in ensuring safety of our customers by providing world class Quality of our products. Quality Data Systems team is looking for a key player on the team who can help drive Quality data analytics and help cross-functional engineering organizations to provide opportunities in product quality improvements. Candidate should have experience working with large data sets, finding best ways to engineer the data to help create critical KPI metrics, building innovative visualizations and dashboards all the while keeping in mind what improvements can be driven in underlying data systems.

Responsibilities

* Analyze manufacturing, equipment and vehicle data and extract useful statistics and insights about failures in order to drive meaningful improvements to production quality and customer experience
* Work effectively with engineers and conducting end-to-end analyses, from data requirement gathering, to data processing and modeling
* Interpret data, analyze results using statistical techniques and provide ongoing reports

Identify data sources where the potential value is not fully realized and invent new means with which to interact and gather insights from them.

* Monitoring key product metrics, understanding root causes of changes in metrics
* Identify, analyze, and interpret trends or patterns in complex data sets and depict the story via dashboards and reports
* Acquire data from primary or secondary data sources and maintain databases/data systems to empower operational and exploratory analysis
* Maintaining existing data visualizations, data pipelines and dashboard enhancement requests
* Automating analyses and authoring pipelines using SQL, Python, Airflow, Kubernetes based ETL framework
* Develop and maintain real time data streaming and processing pipeline using Kafka
* Drive underlying data systems improvement by working with key cross-functional stakeholders
* Perform data quality validations to ensure data creation is as per the business needs and expectations
* Work with management to prioritize business and information needs

Requirements

* BS/MS in Management Information Systems, Computer Science, Math, Physics, Engineering, Statistics or other technical field
* 3+ years of work experience in data analytics or engineering related field
* Strong knowledge of SQL and experience with multiple data architecture paradigms (MySQL, MicrosoftSQL, Vertica, Oracle, kafka, Spark)
* Proficient at ad-hoc analysis using SQL queries, python data analysis packages (e.g.Pandas, Numpy) , report writing and presenting findings
* Proficient in data visualization techniques and tools using Tableau, Power BI, Superset, Matplotlib, Plotly etc.

Data Analyst, Cell Materials Manufacturing

Location:Sparks, US

Job Type: Full-time

Job ID: 187594

REFERAPPLY

Roles

Tesla is looking for an exceptional Data Analyst to impact the Cell Recycling team. As a Data Analyst, you will be responsible for expanding and optimizing our data processes, as well as optimizing data flow and collection for cross functional teams. The ideal candidate is an experienced data pipeline builder and data wrangler who enjoys optimizing data systems and building them from the ground up. The right candidate will be excited by the prospect of optimizing or even re-designing our team’s data architecture to support our ever-growing recycling capacity and material flows.

Responsibilities

* Perform statistical analysis to forecast incoming recycling volumes and identify emerging trends.
* Create data visualizations to communicate analysis results and drive decision making.
* Utilize vehicle fleet data for diagnostics and prognostics.
* Create and maintain optimal data pipeline architecture. Contribute to the continued automation and standardization of our data ETL.
* Identify, design, and implement internal process improvements: automating manual processes, and optimizing queries.
* Work with stakeholders including the IT Business Intelligence team to assist with data-related technical issues and support data infrastructure needs.

Requirements

* 3-5+ years of professional relevant experience
* BS in Computer Science, Statistics, or proof of exceptional skills in related fields.
* Construct and manage data workflows and aggregations to support reporting on live data connections.
* Strong SQL, comfortable writing queries, data processing scripts, and understanding RDBMS data structures.
* Strong Python, especially in a data analytics/science capacity
* Strong analytical skills and knowledge of applied statistics including predictive analytics, time series analysis and machine learning.
* Able to visualize data effectively.
* Tableau (or, similar BI tools).
* Ability to quickly learn new technologies.

Nice to Have:

* Exposure to "big data" technologies, particularly any part of a Spark, HBASE, Hadoop stack.
* Working knowledge of reliability statistics such as Weibull Analysis.
* Experience using the JIRA ecosystem.