

Michael Moore

Data Analyst

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Education

University of Nottingham

BEng (Hons) Mechanical Engineering – 2.1 Hons

Sep 2019 – Aug 2022

Skills

- **Programming Languages:** Python, MATLAB, SQL (Postgres)
- **Tools & Technologies:** Microsoft Excel, Power BI, Power Query, CRM, MS Project, GitHub

Experience

RSSB, FUTURE RISK MODELLING ANALYST

Sep 2024 – Mar 2025

- Spearheaded Phase 1 of the Future Risk Modelling Programme, tasked with quantifying granular costs of different types of train accidents (derailments, collisions) and developing a novel methodology to link accident types to potential cost estimates.
- Developed a preliminary accident cost model in Microsoft Excel, leveraging SQL to extract historical accident data from the RSSB database.
- Integrated internal data with open-source data, applying inferential statistical methods to parameterise the model for predicting costs with dynamic variables such as train speed and type of train, and validated the model with over 20 years of historical insurance claims data.
- Successfully developed a foundational model that quantified potential accident costs, directly contributing to the project achieving Gate 2 approval, and receiving £80,000 in funding for the next phases of development, as documented in the comprehensive Phase 1 report I authored.

RSSB, DATA ANALYST

Sep 2023 – Sep 2024

- Led a deep-dive analysis into key drivers of increased incidents occurring from objects left on the line by trackworkers during engineering works.
- Used SQL to extract data on object types, incident categories, and associated human factor classifications.
- Analysed the data in Microsoft Excel, generating visualisations and compiling a detailed report with targeted recommendations to address root causes, which contributed to a 20% average reduction in reported track obstructions within 3 months.
- Collaborated within a 3-person team to successfully support the Power BI migration for over 20 Train Operating Companies.
- Developed comprehensive user guidance documentation, delivered virtual training sessions to end-users, and actively participated in rigorous Quality Assurance (QA) testing to ensure a seamless transition from existing reporting solutions.
- Significantly enhanced stakeholder adoption and proficiency with Power BI, contributing to minimal disruption in reporting workflows and earning a Net Promoter Score (NPS) of 50 from end-users.
- Automated time-series data analysis presented to railway industry groups by transitioning from manual Microsoft Excel workflows to Python, streamlining processes, reducing preparation time, and improving accuracy.

RSSB, RISK AND SAFETY INTELLIGENCE ANALYST

Sep 2022 – Sep 2023

- Delivered the annual production of Common Safety Indicators (CSIs) for all Train Operating Companies across the GB Mainline
- Developed a comprehensive CSI production guide to standardise processes, facilitate knowledge transfer, and ensure project continuity.
- Independently managed the data collection in SQL, analysis in Microsoft Excel, and reporting in Microsoft Excel, proactively identifying and resolving potential roadblocks.
- Successfully delivered the final CSI product 4 weeks ahead of schedule, demonstrating strong project management and analytical skills. The production guide served as a valuable resource, contributing to the efficiency and consistency of future CSI reporting

Responsibilities and Achievements

CHARITY COLLECTIVE CO-OWNER

Jan 2023 – Jan 2024

- As a Charity Collective Co-Owner at RSSB, I coordinated internal fundraising initiatives to support the Railway Benefit Fund.
- Organised a diverse range of engaging fundraising events, including charity raffles, bake sales, Christmas choir performances, and a rooftop party.
- Implemented multi-channel communication strategies utilising emails, internal Microsoft Teams channels, posters, and in-person engagement to maximise company-wide participation.
- Successfully raised £3,217 for the Railway Benefit Fund, a 150% increase compared to the previous year's fundraising total, demonstrating a significant impact on the charity's support capabilities and highlighting strong organisational and motivational abilities.