

Harsh Singh Rajawat

Data Analyst | Operational Analytics, Automation & Reporting | Python, Excel, Power BI

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PROFESSIONAL SUMMARY

Analytical professional with 4.5 years of experience turning operational data into actionable insights in the energy shipping sector. Expert in gathering, cleaning and analysing large datasets, building and maintaining predictive models, and automating data collection and reporting in Python. Delivers KPI-driven analysis to owners, charterers and senior stakeholders, backed by a marine engineering background and first-hand knowledge of the machinery behind the data.

SELECTED IMPACT

- Predictive discharge fuel model exposed ~37% excess fuel burn, saving an average of USD 4,000 per operation; adopted as standard practice across ~200 vessels and recognised with an Above & Beyond award.
- Seven automation tools cut manual analysis effort by about 40 hours per week; four are in daily team use.
- Analysis behind performance claims generated over USD 1 million in combined commercial value.

PROFESSIONAL EXPERIENCE

Vessel Performance Associate, Performance & Optimisation

Feb 2026 – Present

GeoServe Energy Transport FZCO (GET Marine Management India Pvt Ltd), Mumbai

- Analyse operational performance data for a 23-vessel fleet of oil tankers and LPG carriers: 25–50 daily reports and 100+ voyages per quarter evaluated against contractual speed and consumption benchmarks, with findings delivered to owners, charterers and finance teams.
- Built a physics-based predictive model in Python and Streamlit that estimates the fuel a cargo discharge should need from rate, time, pump and boiler data; showed vessels burning ~25 MT where ~15.75 MT was required (~37% excess), cutting analysis time from hours to minutes.
- Developed an anomaly-detection tool that cross-checks vessel-reported weather against independent API data (Open-Meteo), flagging systematic divergence and enabling accurate KPI validation for performance claims.
- Automated data collection, monitoring and alerting with Python and Playwright: report downloaders, email and SharePoint scanners, a daily report tracker dashboard and an alert that chases missing data after 24 hours, saving ~40 hours of manual effort per week.
- Validate close to 20,000 tonnes of fuel data monthly, resolving discrepancies in remaining-on-board and consumption figures; diagnosed a reporting-platform fault that broke automatic data population.
- Produce 10–25 quarterly Health Check-up Reports translating speed-power, SFOC and consumption trends into recommendations; built a tool that flags upcoming reports, cutting preparation time by 30–40%.
- Identified and raised performance claims carrying over USD 1 million combined, preparing the evidence for the claims team.
- Led rollout of a performance data platform to ~20 vessels and trained a new client's users; maintain CII/EEXI emissions tracking.

Marine Operations Engineer (Engine Cadet to Third Engineer)

May 2022 – Jun 2026

Eastern Pacific Shipping Pte Ltd | Aframax, Suezmax, oil/chemical and product tankers

- Built a digital archive of 500+ machinery-performance records, cutting audit preparation time by 20 hours and achieving 100% compliance in two external audits.
- Migrated 300+ operational logs into a unified maintenance database, removing duplicate entries and saving 12 hours per audit cycle.

- Extracted and analysed equipment performance logs for trend monitoring and defect reporting, improving maintenance strategy and reducing unplanned downtime.
- Introduced double verification for 200+ maintenance documents a month, raising classification-society acceptance from 92% to 99%.
- Deployed a rolling compliance tracker for 100+ safety protocols and 50+ equipment certificates, raising on-board audit pass rates from 85% to 98%.

TECHNICAL SKILLS

Data & analysis: Python (Pandas, Streamlit), Advanced Excel (modelling, Pivot Tables, XLOOKUP, VBA), Power BI, data validation and ETL, predictive modelling, anomaly detection, KPI and trend analysis

Automation & tools: Playwright, web scraping and browser automation, Power Automate, REST APIs, HTML/JavaScript dashboards, Linux cloud servers, local LLM tooling (Ollama, Open WebUI)

Domain: vessel performance, fuel and energy analytics, speed-power and SFOC analysis, CII/EEXI, charter-party performance claims

EDUCATION

B.Tech, Marine Engineering – Tolani Maritime Institute, Pune

2017 – 2021

First Class with Distinction (82.99%); ranked 14th of ~900 students.

CERTIFICATIONS

Certificate of Competency, STCW III/1 Officer in Charge of Engineering Watch (DG Shipping, 2023); Lloyd's Register Welder Performance Qualification 4G/6G (2021); Advanced Fire Fighting (2023); Medical First Aid (2023)

AWARDS & ADDITIONAL

- Above & Beyond (ABCD) award, GeoServe, for developing automated reporting tools and predictive models.
- Ran a book-selling venture during the pandemic, selling 70+ books a month; founded a community meetup group in Gwalior.
- Endurance cyclist (100, 200 and 400 km brevets); half marathon finisher.