Praveen Nair

Data Analyst (from process engineering)

Kochi, Kerala | +91 98XXX XXXXX | praveen.nair@email.com | github.com/praveennair | linkedin.com/in/praveennair

SUMMARY

Process engineer with 5 years in manufacturing, moving into analytics. Spent the last two years doing the analysis work on my own plant's data - yield, downtime and quality - and completed a data analytics programme in 2025. Bringing domain knowledge that a pure analyst would not have.

EXPERIENCE

Process Engineer - Kerala Polymers Ltd Jun 2021 - Present

Kochi

- Analyse production data across 3 lines - about 40,000 batch records over the period - to identify yield loss drivers.
- Built a Power BI dashboard tracking yield, downtime and rejection by line and shift; it replaced a manual weekly Excel report and is now reviewed in the daily production meeting.
- Identified through data analysis that a single humidity-sensitive step accounted for a large share of monthly rejections; the process change that followed reduced rejection rate measurably.
- Automated the daily production report with Python, saving the shift team about 45 minutes a day of manual compilation.
- Run SPC charts and capability studies for 8 critical process parameters.

ANALYTICS PORTFOLIO

Manufacturing Downtime Analysis (public dataset) 2025

- Analysed a public OEE dataset; built a Power BI model attributing downtime to 6 causes and quantifying the cost of each.
- Documented methodology and published on GitHub.

Data Analytics Programme Completed Sep 2025

- SQL, Python (pandas), statistics, Power BI. Capstone: retail sales forecasting model.

SKILLS

Analysis SQL, Python (pandas, NumPy), statistics, SPC, root-cause analysis

Visualisation Power BI, Excel (advanced)

Domain manufacturing processes, yield and OEE, quality systems

EDUCATION

B.Tech, Chemical Engineering - Cochin University of Science & Technology, 2021 | 7.9/10

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