

L&T Financial Dashboard – Final Project Report

Name: Prajjwal Kumar Singh

Project Title:

Integrating Generative AI, Power BI, and VBA for Financial Dashboard of Larsen & Toubro (L&T)

How AI & VBA Were Used

Use of AI:

1. Data Structuring & Cleanup:

- AI tools assisted in formatting tasks such as unpivoting, transposing, and cleaning IS, BS, and CFS.
- Detected headers, year columns, and normalized merged cells.

2. Insight Generation:

- AI identified revenue trends, Current assets and Current liabilities, and net cash flow variances.
- Generated executive-level commentary for the dashboard.

3. Report Assistance:

- AI helped draft this report, summarizing outcomes clearly and concisely.

Use of VBA:

1. Automation of Repetitive Tasks:

- VBA macros automated data linking, table refreshing, and mini-report generation.

2. Data Preparation Automation:

- Scripts forward-filled missing "Particulars," removed empty rows, and standardized formatting.

Key Financial Insights from the Dashboard

1. Revenue & Profitability Trends:

- Revenue grew from ₹1,47,813 Cr (2020) to ₹5,58,878 Cr (2029).
- Net profit margins improved, reflecting cost efficiency.

2. Cash Flow Analysis:

- Net Cash Flow increased consistently, confirming strong operations.

3. Liquidity Health:

- Current Ratio stayed above industry average.
- Quick Ratio shows robust short-term financial position.

4. Valuation Signals:

- DCF valuation and WACC models suggest rising intrinsic value.

Conclusion:

This project successfully showcases how Generative AI, Power BI, and VBA modernize financial analysis. The interactive dashboard not only organizes financials but also delivers real-time executive-level insights.