Sannihith Banala

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SUMMARY

Data analyst with **2 years** of client work at **BDO Lixar** and **Wipro** — mostly Power BI and SQL, with Python where it made sense. I've built dashboards for mining, financial services, and enterprise clients, written the SQL behind them, and sat in the room when the results got presented to directors. Currently building a market-data pipeline in my own time to get sharper on the ML side.

EXPERIENCE

Data Analyst
Apr 2024 – Present

BDO Global — BDO Lixar • Canada, Hybrid

- My main output is Power BI dashboards — **15 shipped across three client verticals** (financial services, mining, professional services) since joining. Each one connects to a different source stack (SQL Server, SharePoint, flat files), so the modelling work varies a lot. Clients stop doing their manual Excel runs when these go live; one team cut their reporting cycle by roughly **40%**.
- I write most of my SQL with CTEs so the logic is easy to hand off — window functions (ROW_NUMBER, LAG, RANK) for the trend and cohort calculations, parameterised views for the reporting layer. DAX side: TOTALYTD, DATEADD, SAMEPERIODLASTYEAR for the period-over-period measures that clients actually care about. **Nothing takes more than 5 seconds to load**, even on million-row pulls.
- Requirements come in vague. I turn them into a written KPI definition, a source-to-target mapping, and a UAT checklist before anything gets built. Also automated four recurring Excel consolidations with Power Query — each one used to take half a day; now they run in under an hour.

Project Engineer — BI & Reporting
Feb 2023 – Feb 2024

Wipro Limited • Hyderabad, India

- Built and maintained **10+ reports** for enterprise clients on SQL Server, Excel, and SharePoint data. The main technical challenge was security — I set up RLS roles in Power BI Desktop, validated them in Service before publishing, and configured the on-premises data gateway so the SQL Server-connected reports would refresh on schedule. No data leaks, no missed refreshes.
- DAX got fairly deep: CALCULATE with filter context overrides, RANKX for leaderboard visuals, DIVIDE for the ratio measures that break when denominators hit zero. Time-intelligence (MoM, YoY) across five client dashboards. Power Query automation cut **around 8 hours a week** of manual data prep — survey exports that needed unpivoting, weekly flat files that needed merging — report turnaround went from two days to same-day.
- Five projects over the year, all delivered on time. Jira for tracking, regular syncs with the client's own business analysts, demos at sprint reviews. Nothing exotic, but every delivery went to plan.

PERSONAL PROJECT

Sector Rotation Analytics Pipeline
Python • pandas • scikit-learn • Power BI

The question was whether market behaviour clusters differently from how S&P 500 sector labels are defined — Energy and Financials showing up in the same cluster under rising yield environments, for example. I built a pipeline to test it properly rather than eyeballing charts.

- Pulls live OHLCV data for **11 sector ETFs** and three macro indicators (10Y Treasury yield, VIX, Dollar Index) via yfinance, resampled to monthly. Features per sector: 6-month return, rolling volatility, momentum (12m minus 1m), Sharpe ratio. All normalised before clustering.
- KMeans with $\mathbf{k = 3}$, validated with Silhouette scoring, run on a rolling monthly window rather than one static fit. Clusters map to Growth/Risk-On, Defensive/Stable, Distressed/Risk-Off. On top of that: a Markov transition matrix that tracks how sectors shift between clusters when macro conditions change — this is what makes it actionable rather than just descriptive.

- Six CSVs in star schema, scheduled via cron, visualised in a 4-page Power BI dashboard with drill-through. Runs end-to-end unattended.

SKILLS

BI & Reporting	Power BI (DAX, Power Query/M, RLS, gateway), Tableau, Excel (XLOOKUP, pivot tables)
SQL	CTEs, window functions, joins, subqueries — PostgreSQL, SQL Server, MySQL
Python	pandas, NumPy, scikit-learn, Plotly, Matplotlib, Seaborn
Other	Git, Jira, Jupyter, Postman, Docker (basics), Agile/Scrum, PIPEDA

EDUCATION

B.Tech. Computer Science & Engineering 2019 – 2023
Malla Reddy Institute of Technology, Hyderabad

CERTIFICATIONS

- **Machine Learning Specialization** — DeepLearning.AI / Coursera
- **Data Science** — Naresh i Technologies