# Sannihith Banala

+1  437-779-8235  |  sannihithreddy2002@gmail.com  |  linkedin.com/in/banalasannihith  |  Portfolio

## SUMMARY

Data analyst with 3 + years at BDO and Wipro, working across Power BI, SQL, and Python on mining, financial services, and enterprise accounts. Covered the work from requirements through UAT and presented results to senior stakeholders. Outside of work, I build end-to-end analytical models that deepen my applied ML skills.

## EXPERIENCE

**Data Analyst**                                                                                    Apr 2024 – Present

*BDO   ·   Canada,*

- Built 15 Power BI dashboards across financial services, mining, and professional services. Each report was modelled from scratch against a different data source: SQL Server, SharePoint, or flat files. One client stopped their manual weekly Excel run after go-live, cutting their reporting cycle by roughly 40%.
- Wrote production SQL using CTEs, window functions (ROW_NUMBER, LAG, RANK) for trend and cohort logic, and parameterised views for the reporting layer. Built star-schema DAX models using TOTALYTD, DATEADD, and SAMEPERIODLASTYEAR for the time-intelligence measures clients needed most. Reports load in under 5 seconds on million-row datasets.
- Converted client briefs into documented KPI definitions and source-to-target mappings before each build, and used a UAT checklist to sign off at delivery. This kept scope clear and reduced back-and-forth during reviews.
- Automated four recurring Excel consolidations using Power Query, cutting each from a half-day manual task to under one hour. Set up scheduled refreshes in Power BI Service so reports update automatically.

**Power BI Analyst – BI & Reporting**                                                              Feb 2023 – Feb 2024

*Wipro Limited   ·   Hyderabad, India*

- Built and maintained 10 + Power BI reports for enterprise clients on SQL Server, Excel, and SharePoint. Set up row-level security roles in Power BI Desktop, validated them in Service, and configured the on-premises data gateway for scheduled refreshes.
- Wrote advanced DAX across five dashboards: CALCULATE to override filter context, RANKX for ranking visuals, and DIVIDE for ratio measures that error on zero denominators. Used Power Query to automate recurring data prep, cutting report turnaround from two days to same-day.
- Gathered requirements from client business analysts, iterated builds in Power BI Desktop, and presented at sprint reviews tracked in Jira.

## PERSONAL PROJECT

**Sector Rotation Analytics Pipeline**                            *Python · pandas · scikit-learn · Power BI · yfinance*

- Built a pipeline that pulls monthly price data for 11 S&P 500 sector ETFs and three macro indicators (10-year Treasury yield, VIX, Dollar Index) via yfinance. Calculated four features per sector: 6-month return, rolling volatility, momentum, and Sharpe ratio, all normalised before modelling.
- Applied KMeans clustering (k = 3, selected via Silhouette scoring) on a rolling monthly window to label sectors as growth-oriented, defensive, or distressed. Built a month-to-month transition matrix to track how often sectors move between clusters as conditions change.
- Exported six CSVs in star-schema format, scheduled daily via cron, and visualised in a 4-page Power BI dashboard with drill-through and macro overlay charts.

## SKILLS

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|---|---|
| **BI** | Power BI (Desktop, Service, DAX, Power Query/M, RLS, Gateway), Excel (XLOOKUP, pivot tables, Power Query) |
| **SQL** | CTEs, window functions, subqueries, query tuning (PostgreSQL, SQL Server, MySQL) |
| **Python** | pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Plotly, Statsmodels |
| **Analytics** | EDA, clustering, regression, A/B testing, cohort analysis, KPI design |
| **Workflow** | Git, Jupyter, Agile, PIPEDA |

## EDUCATION

**B.Tech., Computer Science & Engineering**                    2019 − 2023

*Malla Reddy Institute of Technology, Hyderabad, India*

## CERTIFICATIONS

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