

NIKHIL SURYAWANSHI

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EDUCATION

MS in Data Science - Rochester Institute of Technology, New York [3.77/4 CGPA] 08/2022 - 05/2025

B.Eng. in Computer Engineering - Bharati Vidyapeeth College of Engineering, India [8.54/10 CGPA] 08/2018 - 07/2022

EXPERIENCE

Data Analyst Intern - Coherent Corp - Saxonburg, Pennsylvania 01/2024 - 05/2024

- Analyzed post-acquisition financial data from **ERP** systems using **SQL, Python, and Excel**, delivering insights on GAAP/non-GAAP metrics (**EPS, revenue, COGS**) and presenting findings to the **C-Suite**, supporting a **\$150 M cost-saving strategy**.
- Designed and deployed seven sector-specific **Power BI** dashboards, providing project managers with easily accessible insights into a **\$700M cost-saving initiative**, resulting in findings to **fix the three biggest causes of budget overruns**.
- Instituted enterprise-wide **data governance** in the Amplify platform, including role-based access control (**RBAC**), anomaly detection, and hygiene processes, improving data accuracy by **25%** and strengthening compliance for **10+** stakeholder teams.

Data Analyst Intern - SankalpSoft Solutions - Nashik, India 01/2022 - 06/2022

- Designed and maintained **SQL-driven dashboards** in **AWS QuickSight**, providing weekly performance insights for **20+** retail and operations clients, enabling executives to monitor **KPIs** in real time and make data-driven decisions.
- Created database views and reporting schemas to streamline analytics on **5M+** transactional records, improving accessibility and accelerating cross-functional reporting for project stakeholders.
- Optimized reporting workflows, reducing data retrieval latency by **35%** and cutting reporting turnaround time by **15%**, improving efficiency for business teams.

Data Analyst Intern - Mass Technologies - Pune, India 07/2021 - 12/2021

- Engineered a machine learning model leveraging **Python, KNN, and Decision Trees** that utilized **120K+** student education records, which improved recommendation accuracy by **8%**.
- Conducted trend analysis and automated biweekly reporting for a **20K+** student user base, delivering actionable insights to the client's counseling platform and enhancing the student-university matching process.
- Revamped data preparation and delivery workflows using **Python** and **SQL**, enabling real-time updates to recommendation systems and reducing manual update efforts for the client's operations team by **40%**, improving overall reporting efficiency.

SKILLS

- **Data Analysis:** SQL, Advanced Excel (Pivot, Power Query, Macros), Time-Series, Validation, Trend & Variance Analysis
- **Programming & Automation:** Python (Pandas, NumPy, Matplotlib), R (statistical analysis), Data Wrangling & Automation Scripts
- **Statistical & Financial Analysis:** Descriptive & Inferential Statistics, Hypothesis Testing, Forecasting, Risk Metrics(Sharpe, Var)
- **Data Modeling & Warehousing:** Relational Modeling, Star/Snowflake Schema, AWS Redshift/S3, ETL/ELT
- **Visualization & BI Tools:** Power BI (DAX, interactive dashboards), Tableau, AWS QuickSight, KPI & Executive Reporting

PROJECTS

Customer Lifetime Value Prediction - (Python, SQL, Snowflake, Power BI)

- Built segmentation and **LTV** models on **250K+** customer policy records using **Python** and **SQL**, uncovering premium, claims, and tenure patterns. Delivered insights that improved retention targeting by **18%** and informed risk-adjusted marketing strategies.

SmartQuery AI: Talk to Your Data - (Coherent Corp.) - (Python, SQL, Langchain, RAG)

- Integrated a **GenAI**-powered analytics platform leveraging **LangChain** and **RAG** for real-time natural-language exploration of enterprise data, reducing manual data preparation by **60%** and **3x** insight generation speed for enterprise decision-making.

Grocery Inflation Tracker - (Python, AWS S3, Glue, Athena, QuickSight)

- Developed ETL pipelines to track inflationary trends across **100+ SKUs** from 5 retailers using **AWS** Glue, Athena, and QuickSight. Delivered CPI-style dashboards, enabling stakeholders to monitor price volatility and cutting manual analysis by **10+** hrs/month.

Portfolio Optimization & Risk Analysis - (Python, SQL/Postgres, Streamlit, Power BI)

- Implemented pipelines to ingest **5+ years** of market data and optimize portfolios via **MPT, HRP, and CVaR**; executed **10K+ Monte Carlo** simulations with walk-forward backtesting, cutting risk by **20%**, and shipped interactive dashboards with data refreshes.