

SUCHARITHA AMANCHA

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SUMMARY

Data Analyst with **4+ years** of experience in healthcare utilization analytics, enterprise KPI reporting, and cost modeling across manufacturing, technology, and payer healthcare environments. Built analytics solutions using **SQL, Python (Pandas, PySpark), Power BI, Tableau, AWS Redshift, and Azure Data Factory** to improve reporting efficiency, automate ETL validation, and support financial decision-making. Developed forecasting models and ML-based classification systems while maintaining compliance with **HIPAA** and **SOX** standards across three enterprise organizations. Collaborated with 12+ stakeholders across finance, operations, compliance, and data engineering to deliver analytics solutions in Agile environments.

PROFESSIONAL EXPERIENCE

Data Analyst | Molina Healthcare, USA | Jan 2025 – Present

- Directed healthcare utilization analysis using **SQL (CTEs, window functions)** and **Power BI**, evaluating 1M+ member claims and reducing executive reporting cycle from 3 business days to 1 day through query optimization and automation.
- Orchestrated ETL validation using **Python (Pandas, PySpark)** and **Azure Data Factory**, removing 5 manual reconciliations and reducing data exceptions from 15 to 9 per cycle across 8 HIPAA-governed reports.
- Constructed regression and time series forecasting models in **Scikit-learn** to analyze pharmacy and inpatient cost drivers, enabling finance teams to initiate containment actions projected to avoid \$170K in upcoming fiscal allocations.
- Designed and executed **A/B testing** frameworks to evaluate care management outreach effectiveness and reporting enhancements, enabling data-driven optimization of operational strategies.
- Refactored complex **Redshift SQL** queries and collaborated with data engineering on distribution key alignment, reducing **Power BI** dataset refresh latency from 11 seconds to 3 seconds for 90+ operational stakeholders.

Data Analyst | Dell Technologies, India | Aug 2021 – Sep 2022

- Designed executive KPI dashboards in **Power BI (DAX)** integrating data from **PostgreSQL** and **Azure SQL Database**, supporting operational reporting across 3 business units and 30+ senior stakeholders.
- Developed advanced **SQL** queries using window functions and performance tuning, reducing monthly reporting cycle from 6 days to 3 days while analyzing datasets containing 5M+ transactional records.
- Built machine learning (ML) classification models using **Random Forest** and **Logistic Regression** to evaluate customer churn indicators, enabling account teams to prioritize outreach for 800 enterprise accounts.
- Enhanced ETL workflows using **SSIS** and **Informatica**, stabilizing data refresh processes for 12 recurring reports and reducing failed batch jobs from 5 to 3 per quarter through monitoring improvements.
- Identified cross-system billing discrepancies using reconciliation scripts in **Python** and **Excel VBA**, surfacing \$190K in mismatched transactions during quarterly audits under SOX controls.
- Partnered within Agile Scrum teams using **Git** and **Jupyter Notebook**, translating stakeholder requirements into production-ready analytics solutions and delivering 9 user stories across 4 sprint cycles.

Data Analyst | Adani, India | May 2019 – Jun 2021

- Analyzed plant production data using **SQL Server** and **Excel Power Query**, identifying throughput bottlenecks in 3 batch reactors and reducing average processing delays by 10 production hours per month through scheduling adjustments.
 - Developed automated KPI dashboards in **Tableau** monitoring 16 manufacturing metrics, enabling plant leadership to track cycle time, yield variance, and downtime across 3 production lines and supporting weekly performance reviews.
 - Conducted statistical analysis using **R** (Hypothesis Testing, ANOVA) to assess raw material quality variation, supporting procurement decisions that reduced rejected lots from 9 to 6 during the 8-month evaluation period.
 - Engineered data cleaning and transformation workflows in **Python (Pandas)**, standardizing 120K historical production records and improving reliability of time series demand forecasts used for monthly capacity planning.
 - Coordinated cross-functional reviews with operations and compliance teams, formalizing 5 process control enhancements that were incorporated into plant standard operating procedures.
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TECHNICAL SKILLS

- **Programming & Analytics:** Python (Pandas, NumPy, PySpark, Scikit-learn), R, SQL, VBA, Shell Scripting
 - **Databases & Querying:** PostgreSQL, MySQL, MS SQL Server, Azure SQL Database, BigQuery, MongoDB, AWS Redshift
 - **Business Intelligence & Reporting:** Power BI (DAX), Tableau, Microsoft Excel (Power Query, PivotTables), Spotfire
 - **Cloud Platforms:** AWS (S3, Redshift), Microsoft Azure (Azure Data Factory, Azure Databricks), Google Cloud Platform
 - **Data Engineering & Integration:** SSIS, Informatica, Apache Airflow, ETL Pipelines, Data Modeling
 - **Statistical & ML Methods:** Regression Analysis, Time Series Forecasting, ANOVA, A/B Testing, Random Forest, XGBoost, K-Means
 - **Data Governance & Compliance:** HIPAA, GDPR, SOX Controls, Data Validation, Reconciliation Checks
 - **Development & Collaboration:** Git, GitHub, Docker, Jupyter Notebook, VS Code, Agile, Scrum, SDLC
 - **Core Competencies:** Healthcare Utilization Analysis, Cost Analytics, KPI Monitoring, Automation, Cloud Migration
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EDUCATION

Master of Technology in Chemical Engineering | National Institute of Technology Calicut | Jul 2020 – Jul 2022

Bachelor of Technology in Chemical Engineering | Jawaharlal Nehru Technological University | Jul 2015 – Jul 2019