

Rohit Akole, MSTM

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Aspiring data enthusiast with a strong foundation in Data Science methodologies. Proficiency in programming, machine learning, statistical analysis, and data visualization. Ability to tackle complex data challenges with a focus on harnessing the power of data to drive innovation, make informed decisions, and contribute to the development of data-driven solutions that align and positively support business goals and performance.

EDUCATION

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| University of Connecticut, School of Business – Hartford, CT <i>Master of Science in Business Analytics and Project Management, Concentration: Data Science</i> | May 2025 |
| University of Bridgeport, School of Engineering – Bridgeport, CT <i>Master of Science in Technology Management, Concentration: IT and Big Data</i> | May 2019 |
| North Maharashtra University, School of Management – Jalgaon, India <i>Bachelor of Business Management, Concentration: E-Commerce</i> | May 2015 |

TECHNICAL SKILLS

Programming: Python, SQL, R Programming, Machine Learning, Django

Tools: PyCharm, Jupyter Notebook, Tableau, SAS Studio, PowerBI, ESP Scheduler, RStudio, SSIS, SSMS, MS Visio, GitHub, MS Excel, MS Access, Google Data Studio, Google DataPrep, SAS JMP, Office 365, Figma (UI Tool)

PROJECT EXPERIENCE

Health Insurance Marketplace Data Analysis and Report Automation

- Executed data transformation via SSMS, integrating and cleaning data from various sources to create a consolidated dataset of 400,000+ records. Remedied 95% of null values with defaults, boosting data quality and accuracy.
- Engineered a Python script cutting down report generation time from 60 minutes to under 2 minutes (97% time-saving). Exported data directly from SQL to an Excel file. Revamped column width, and added filter options to all columns, and replaced empty columns with 0 in the Pivot table for revised data presentation and analysis.
- Leveraged Pandas, Openpyxl, Xlsxwriter, PyODBC, and SQLAlchemy, diminishing manual labor by 95%.
- Yielded annual time savings of over 500 hours and improved data accuracy.

Six Sigma Metal Rod Analysis for Cost-Effective and Quality Procurement

- Analyzed data from metal rod production us MS Excel, evaluating 250 rods from each supplier (10,000 rods total). Assessed critical product parameters, including thickness, length, and diameter, yielding actionable insights.
- Utilized statistical models to identify a 12% reduction in manufacturing costs via data-driven supplier selection.
- Prompted data-driven decision-making by presenting comprehensive insights. Facilitated selection of optimal supplier among competitors, resulting in annual \$250,000 cost savings, 15% fewer defects, and 10% higher production efficiency.

Coal Reclaimer Analysis for Maintenance Optimization

- Orchestrated a Tableau-driven analysis of five coal reclaimer machines identifying critical issues: RL1 exceeded 10% idle capacity threshold, leading to a 20% reduction in downtime and \$50,000 in annual cost savings after immediate maintenance. Addressed early maintenance signs in SR4A, mitigating potential \$30,000 losses per incident.
- Deployed precise visualizations to categorize machine performance into underperforming ($IDL > 10\%$), operational ($IDL \leq 10\%$), and over-performing categories.
- Optimized operational efficiency, reducing downtime by 20% and preventing potential losses of \$30,000, resulting in enhanced overall performance for coal reclaimer machines.

PUBLICATIONS

- Rohit Vikas Akole (2021); Operation and Significance of Supply Chain Management (SCM) in Business; International Journal of Scientific and Research Publications (IJSRP) 11(6) (ISSN: 2250-3153).
- Akole, R. V. (2019) Problems and Solutions for Project Management Information Systems. International Journal of Science and Engineering Investigations (IJSEI), 8(87), 80-85.

CERTIFICATIONS

- IBM Data Science, a 9-course professional certification by IBM on Coursera.
- IBM Data Analyst, a 9-course professional certification by IBM on Coursera.
- Advanced Google Analytics.
- Google Analytics for Power Users.