

# Rohit Akole, MSTM

[rohit.akole@uconn.edu](mailto:rohit.akole@uconn.edu) | [rohitakole50.github.io](https://github.com/rohitakole50) | +1 (959) 223 0185 | Hartford, CT

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

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