

Milin Rao Deshmukh

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PROFESSIONAL SUMMARY

Certified Data Analyst with 3+ years of experience in business analysis, cost analysis, project planning, and data-driven decision support, now expanding into Machine Learning. Proficient in SQL, Python, Power BI, Advanced Excel, and Machine Learning, with strong expertise in data cleaning, analysis, and visualization to drive performance insights. Skilled in EDA, dashboard development, KPI tracking, forecasting, stakeholder communication, and reporting for strategic decision-making. Bring a strong blend of analytical and engineering expertise with business understanding to identify trends, optimize processes, and deliver measurable results. A passionate, curious and problem-driven engineer, committed to delivering meaningful business impact through data.

EDUCATION

Other (Data Science) Newton School	2024 - 2026 Grade: 10.0/10.0
Masters in Technology (Mechanical Engineering) Prestige Institute of Engineering Management Research (PIEMR) Indore, Madhya Pradesh	2020 - 2023 Grade: 8.9/10.0
Bachelor of Engineering (Mechanical Engineering) Lakshmi Narain College of Technology Indore	2014 - 2018 Grade: 7.27/10.0

EXPERIENCE

ML Engineer November 2025 - January 2026
Angstrom Education Pvt. Ltd. *Remote*

- Evaluated machine learning model outputs for accuracy, consistency, and logical relevance.
- Tested model behaviors across edge cases and varied input patterns to assess robustness.
- Identified prediction errors, data-related issues, and unexpected model responses.
- Documented findings and shared structured feedback to improve overall model performance.

Senior Engineer – Business Analysis — Design and Development July 2023 - February 2025
Hindustan Equipment Pvt. Ltd. *Indore*

- Designed and maintained interactive dashboards and reports to track KPIs, project progress, and cost trends.
- Utilised SQL for data extraction, transformation, complex engineering calculations and analysis.
- Conducted detailed cost variance analysis, identifying cost savings opportunities and supporting pricing and sourcing strategies.
- Delivered management reports with data-backed insights for strategic and financial decision-making.

NPD Engineer February 2021 - May 2022
Belmaks Metal India Pvt. Ltd., Pithampur *Pithampur*

- Prepared and managed business and technical documentation including BRDs, FRDs, and engineering reports while collaborating with business, quality and production teams to support projects for Force Motors, Volvo and Eicher.
- Analyzed process and quality data to identify gaps, reduce rework, and improve operational efficiency.
- Supported project monitoring, stakeholder coordination, and data-driven decision-making through structured reporting.

Customer Service Executive July 2020 - November 2020
Teleperformance, Indore *Indore*

- Analyzed customer interaction data and survey responses to identify service trends and recurring issues.
- Improved service reporting clarity and stakeholder communication through structured documentation of customer metrics

PROJECTS

Smart Grid Fault Detection and Performance Prediction (Machine Learning) ([Github](#)) September 2025

- Built an end-to-end machine learning pipeline to detect transformer faults (classification) and predict power efficiency (regression) using a 50K-record smart grid dataset with sensor and environmental features.
- Conducted EDA revealing a highly imbalanced fault class (3%) and strong influence of solar, wind, and grid supply on efficiency; engineered derived efficiency metrics and addressed imbalance using SMOTE.

- Evaluated multiple ML models and achieved high predictive accuracy with Random Forest Regressor ($R^2 = 0.997$, RMSE = 0.97) and a strong baseline fault detection using Gradient Boosting.
- Generated timestamp-wise fault and efficiency predictions suitable for dashboards and monitoring systems.

Hotel Booking Application (EDA Project) ([Github](#))

June 2025

- Analyzed a 119K-record hotel booking dataset to identify key drivers of cancellations, customer behavior, and revenue trends.
- Found that non-refundable bookings had 94.7% cancellations and long lead times resulted in up to 35% higher cancellation rates, guiding booking policy insights.
- Revealed that repeat guests canceled only 7.6% vs. 28.3% for new guests, highlighting strong intent signals.
- Translated analytical findings into recommendations for retention strategies and early booking confirmations.

Bank Customer Relationship Management (Power BI Project) ([Github](#))

February 2025

- Analyzed banking customer data using SQL to uncover churn patterns based on credit score, tenure, product holdings, and demographics.
- Built an interactive Power BI dashboard to visualize KPIs such as churn rate, average balance, and customer segments.
- Transformed raw banking data into strategic insights to support customer retention and engagement strategies.
- **Key Tools Used:** SQL, Power BI, Microsoft Excel

IPL RCB Performance Analysis (SQL Project) ([Github](#))

February 2025

- Analyzed Royal Challengers Bangalore's historical IPL performance using SQL to identify trends in batting, bowling, and team strategies.
- Evaluated player statistics such as runs, strike rates, and economy rates to aid in team selection and auction decisions.
- Processed large datasets to detect key performance patterns, supporting smarter player retention and investment choices.
- Created detailed reports highlighting team strengths, weaknesses, and areas for improvement.
- **Key Tools Used:** SQL, MySQL Workbench, Microsoft Word, PowerPoint

Zomato Restaurant Data Analysis (Excel Project) ([Github](#))

November 2024

- Collected, cleaned, and processed restaurant data using Excel to ensure data quality and consistency.
- Identified key patterns, trends, and KPIs to assess business growth opportunities.
- Developed reports and dashboards to support data-driven decision-making for restaurant management strategies.
- **Key Tools Used:** Microsoft Excel

CERTIFICATIONS

Deloitte Data Analytics Job Simulation Deloitte ([Link](#))

June 2025

- Completed the Deloitte Australia Data Analytics Virtual Internship (Forage), gaining hands-on experience in data analysis, forensic technology, and business intelligence using Tableau. Applied data-driven decision making by analyzing telemetry data, identifying inefficiencies, and creating dynamic dashboards to support business insights.

Professional Certificate Course In Data Science Newton School

July 2024

- Pursuing an intensive, multi-phase certification covering data analysis, business intelligence, machine learning, and deep learning, aligned with real-world industry roles.
- Gaining hands-on expertise in tools like Advanced Excel, SQL, Power BI, Python, and key libraries (NumPy, Pandas, Matplotlib, Seaborn) through projects and case-based learning.

SKILLS

Computer Languages: Python, SQL

Data Tools: NumPy, Power BI

Software Packages: Pandas, Matplotlib, Excel, MySQL

Soft Skills: Interpersonal communication, Verbal/nonverbal communication, Team Building, Time management, Decision-making, Research, Teamwork, Critical Thinking, Responsibility, Communication Skills

Others: Microsoft Office, Analytics