

NILANJANA MAL

Data Analyst



Scaling new heights of success with hard work & dedication and leaving a mark of excellence on each step; offering a combination of statistical, machine learning skills and an interest in driving business impact through actionable insights

Targeting challenging opportunities in **Data Science / Analytics** with an organization of high repute

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Executive Profile

- **A multi-faceted professional** offering 9 years of experience including **the last 1 year in Data Science and Machine Learning** and the rest in project management, data analysis, financial planning, and real estate management
- **Expertise in data analysis**, predictive modeling, and statistical techniques, with a solid foundation in Python, and SQL programming languages
- Proven capability to **develop end-to-end data pipelines**, from data collection and preprocessing to model deployment and monitoring
- Strong proficiency in **machine learning algorithms and frameworks**, including scikit-learn, Pandas, and Numpy, for building predictive and classification models
- **Skilled in data visualization using tools** such as Tableau to communicate complex findings effectively to both technical and non-technical stakeholders
- **Experience with big data technologies**, including SQL, for managing and processing large-scale datasets efficiently
- **Proactive problem solver** who can identify data-related challenges and develop innovative solutions to address them
- **Strong business acumen**, with a demonstrated ability to translate data insights into actionable recommendations that drive strategic decision-making
- **Collaborative team player** with excellent communication skills, capable of working closely with cross-functional teams to achieve project objectives
- Committed to **staying up-to-date with the latest advancements in the field of data science** through continuous learning and professional development

Academic Projects Undertaken

- **Data-driven decision Support**; employed Pandas, Scikit-Learn, Matplotlib, and Seaborn for statistical analysis and predictive modeling on the Wall Mart dataset, facilitating data-driven decision-making
- **Housing Market Optimization**; enhanced housing market insights through Multiple Linear, Elastic Net, Ridge, and Lasso Regression on the Boston Homes Dataset, improving investment strategies
- **Precision in Botanical Classification**; achieved accurate classification of Iris plant species using logistic regression on the Iris Dataset, demonstrating precision in machine learning
- **Efficient Data Reduction**; streamlined data with Principal Component Analysis on the Digit Dataset, optimizing data processing and preserving critical information
- **Versatile Classification Skills**; demonstrated proficiency in classification techniques, including Naive Bayes, Decision Tree, Random Forest, and Support Vector Machine, addressing diverse classification challenges effectively

Key Impact Areas

Data Science & Analytics	Machine Learning
Project Execution & Management	Solution Designing
Client/Stakeholder Management	Data Visualization
Requirement Gathering	Dashboard Reporting
Statistical Analysis & Modeling	Reporting & Documentation

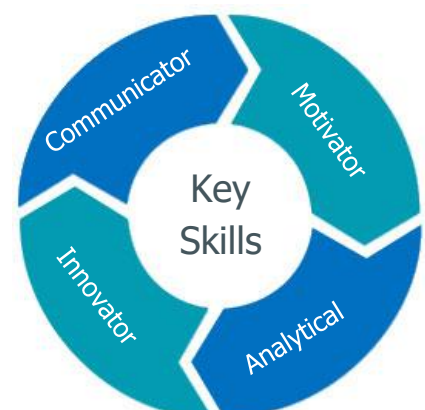
Education & Credentials

2014: B.Tech. in Civil Engineering from West Bengal University of Technology, Kolkata

Certification

2022: Certification Programme in Data Science and Machine Learning from Simplilearn

Soft Skills



Industrial Projects Undertaken

- Applied Linear Regression, XG Boost, Random Forest, and KNN algorithms to excel in property valuation, enhancing decision-making in real estate
- Utilized Time Series Analysis to develop precise sales forecasts, optimize inventory management, and drive revenue growth
- Enhanced concrete strength calculations with Decision Tree algorithms, ensuring structural integrity in construction projects

Key Accomplishment

- Successfully introduced and managed an E.R.P. system across diverse sectors in building construction; improved workflow efficiency, and budget monitoring, and enabled data-driven decision-making for top management

Professional Experience

2019 - 2023: Ram India Group, Pune as Project Controller & Data Analyst

Key Result Areas:

- Developed and executed data-driven strategies to align analytics projects with organizational goals, demonstrating an early aptitude for delivering impactful insights
- Managed end-to-end data analytics projects, ensuring timely completion and efficient resource utilization while meeting or surpassing client expectations
- Utilized financial analysis techniques to identify opportunities for cost reduction, revenue enhancement, and risk management, contributing to early financial improvements
- Displayed an eagerness to integrate data science and machine learning into business processes, showcasing a commitment to innovative problem-solving
- Committed to continuous learning by staying abreast of industry trends and upskilling in data science, demonstrating a passion for professional growth
- Applied data analysis skills to extract meaningful insights from datasets, contributing to data-informed decision-making within the organization
- Collaborated effectively with cross-functional teams, bridging technical and non-technical gaps, ensuring smooth project execution early in the career
- Introduced performance tracking systems for early project impact assessment and data-driven decision adjustments
- Conducted initial risk assessments for data analytics projects, implementing early mitigation strategies to ensure project success and data security awareness
- Communicated analytical findings clearly and concisely to senior executives and non-technical stakeholders, contributing to informed decision-making, even in the early stages of the career

Professional Experience

2014-2019: Vascon Engineers Ltd, Pune as Assistant Quantity Surveyor

Key Result Areas:

- Conducted detailed quantity surveying using AutoCAD and Excel, resulting in significant cost savings and on-budget project delivery
- Streamlined operations through adept ERP management and optimized contractor-vendor relationships, enhancing project efficiency
- Implemented precise estimation and budgeting techniques, ensuring projects consistently met financial objectives and timelines

IT Skills

Data Analysis:	Tableau & Excel
Data Science:	Python & Machine Learning
Quantity Surveying:	AutoCAD & Excel
Mathematics & Statistics	
Data Visualization:	Tableau
Database Management:	PostgreSQL

Personal Details

Date of Birth:	10-10-1992
Languages Known:	English, Hindi, and Bengali
Address:	Pune, Maharashtra-411043