RISHI RAJ

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EDUCATION

Bachelor of Technology - Mechanical Engineering   Ranchi, Jharkhand
Birla Institute of Technology, Mesra │ CGPA: **8.42** / 10.0   2021 - Present

Class 12 (Intermediate)   Jamshedpur, Jharkhand
D.A.V. Public School │ Percentage: **90.0** / 100   2018 - 2020

Class 10 (Matriculation)   Jamshedpur, Jharkhand
Tarapore School │ Percentage: **87.0** / 100   2005 - 2018

SKILLS

C++ • JAVA • Python • MS-Excel • MS-Power BI • MySQL • PostgreSQL • Data Structures And Algorithms • Object Oriented Programming • Database Management System • Natural Language Processing (NLP) • Artificial Intelligence • Machine Learning • Analytical Thinking • Problem Solving • Artificial Neural Network • Project Management • Supply Chain Management • Strategic Planning • Business Acumen

EXPERIENCE

Tata Steel   Jamshedpur, Jharkhand
Mechanical Engineering Intern   05/2024 - 07/2024

Key Skills: Leveraged problem solving skills by applying mechanical engineering principles, material science knowledge, simulation for analysis and documentation as primary objective of this project is to increase the reliability of braking pinch roll assembly in New Bar Mill.

- Identified and addressed reliability issues in the braking pinch roll assembly by conducting root cause analysis and proposing solutions.
- Improved reliability and lifespan of the braking pinch roll assembly, leading to reduced downtime and increased operational efficiency.
- Applied problem-solving to recommend enhancements such as improved assembly procedures and surface hardening of pinch rolls.
- Improved reliability and lifespan of the braking pinch roll assembly, leading to reduced downtime and increased operational efficiency

PROJECTS

Development of a machine learning model to predict loan approval status using applicant and financial data, focusing on data preprocessing, feature engineering, and exploratory analysis.

Key Skills: Demonstrated expertise in Python, Power BI, SQL, and machine learning, with data visualization techniques to present insights.

- Implemented various classification models (e.g., Random Forest, Logistic Regression) and conducted performance evaluation to select the most accurate approach, showcasing robust analytical thinking.
- Enhanced decision-making processes for loan approvals, contributing a deployable solution that can streamline financial evaluations.
- Combined a strong foundation in problem-solving and analytical thinking with technical expertise in data science and machine learning.
- Developed a user-friendly GUI application to streamline the loan approval process and interactive dashboards using Power BI to provide real-time insights.

Conducted comprehensive business data analysis and developed dashboards for John's Company Sales Analysis.

Key Skills: Applied problem-solving, analytical thinking, and data visualization with proficiency in MS Excel, SQL, and Power BI.

- Conducted comprehensive business data analysis and developed dashboards using Power BI and Excel to evaluate key performance metrics and visualize trends.
- Led data preparation, performed trend, frequency, and variance analyses, and built interactive reports to guide strategic decision-making.
- Enhanced business insights by identifying sales and profit trends, supporting targeted business strategies for improved performance.
- Leveraged a strong foundation in data analytics and business intelligence to deliver impactful solutions and insights as part of my analytical discipline.
- Created visually appealing and informative data visualizations in Excel Sheets and developed interactive dashboards using Power BI to provide real-time insights and then consolidated each analysis and reports into a clear and concise format.

Operations and Network Optimizations of Supply Chain Performance focussing on the inventory management and shipment delay.

Key Skills: Supply Chain Management, Problem Solving, Power BI skills for primary focus is on addressing key challenges related to delay shipment and inventory management within supply chain strengthen supplier relationships, contributing to enhanced operational efficiency.

- Conducted a comprehensive analysis of supply chain inefficiencies, focusing on business downturn, inventory management, supplier networks and shipment systems to identify bottlenecks and streamline processes for improved business performance.
- Formulate actionable strategies to optimize inventory levels, reduce shipment delays, and strengthen supplier relationships, contributing to enhanced operational efficiency that can improve customer satisfaction, lower costs, and set a foundation for long-term growth.
- Enhanced abilities in business acumen, supply chain analysis, and data-driven decision-making, with a strengthened capability to address complex supply chain management principles and business analytics challenges through analytical and technical approaches.

EXTRA CURRICULAR ACTIVITY AND HOBBIES

| 🪙 Watching and Playing Cricket | ✔ Playing Standard 52- Deck Cards & 8 Ball-Pool game | ⚡ Playing Airsoft Gun Shooting |