SEHWAG LODHI

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SUMMARY

Motivated **third-year Mechanical Engineering student** with a keen interest in **business analysis**. Passionate about understanding **business needs, analyzing data,** and **improving processes** to drive efficiency. Eager to apply **analytical thinking** and **problem-solving skills** to real-world business challenges.

EDUCATION

R S Convent H S School	X	94.2%	2019
R S Convent H S School	XII	92.8%	2021
MNIT Jaipur	B.Tech in Mechanical Engineering	7.31	2026

WORK EXPERIENCE

KEC INTERNATIONAL **TELECOM SHOP** DEC 2023

- **Performed data-driven analysis** of machine setup times and identified inefficiencies, reducing setup time by **15%** through process optimization.
- **Conducted a time-motion study** to analyze production bottlenecks, leading to a **10-15% improvement in cutting consistency** by standardizing machine speed variations.
- **Utilized data insights** to recommend hydraulic rollers in the drilling section, optimizing material transfer and reducing cycle time by **20%**.
- **Analyzed production workflow data** to identify manpower distribution issues, leading to more balanced work allocation and improved shop floor efficiency.
- **Generated structured reports** based on collected operational data, helping supervisors make informed decisions on process improvements.

PROJECT

Power BI Sales Data Analysis – ElectroHub [Link] 2025

- **Transformed raw sales data** and optimized the data model for efficient reporting.
- Identified **top 5 products** by sales, profit, and quantity sold.
- Analyzed **sales trends** (monthly, quarterly, yearly) and **sales vs. profit correlation**.
- Developed **city-wise sales analysis** for regional performance insights.
- Built an **interactive dashboard** with filters for deeper business insights.

Rock vs Mine Prediction Model using Logistic Regression [Link] 2024

- Sonar data containing **208 samples** with **60 frequency-based attributes.**
- Tech Stack:Python, NumPy, Pandas, scikit-learn (Logistic Regression).
- Collected and preprocessed data (handled missing values, normalization, etc.).
- Achieved **100% accuracy** on the training dataset and **83.33% accuracy** on the test dataset.
- Improved the accuracy and efficiency of sonar-based object classification, enhancing the reliability of underwater exploration systems.

EXTRA- CURRICULAR ACTIVITIES

Travel Enthusiast - Explored diverse cultures and environments, enhancing adaptability and problem-solving skills.
Fitness and Gym Training – Consistently maintain a disciplined workout routine, improving mental and physical endurance.
Cricket Player – Actively participate in cricket, developing teamwork, strategic thinking, and leadership skills.

SKILLS

Microsoft Tool - Power BI , Excel , powerpoint.
Python libraries - NumPy, Pandas, Matplotlib, Seaborn, and Scikit-learn.
Other Skill - Python , machine learning.