CHALLENGES AND SOLUTION IN COPPER INDUSTRY

BY

GOWCIGAN M

DATA CHALLENGES

Less complexity in sales and pricing data

Issues: skewness, noisy data

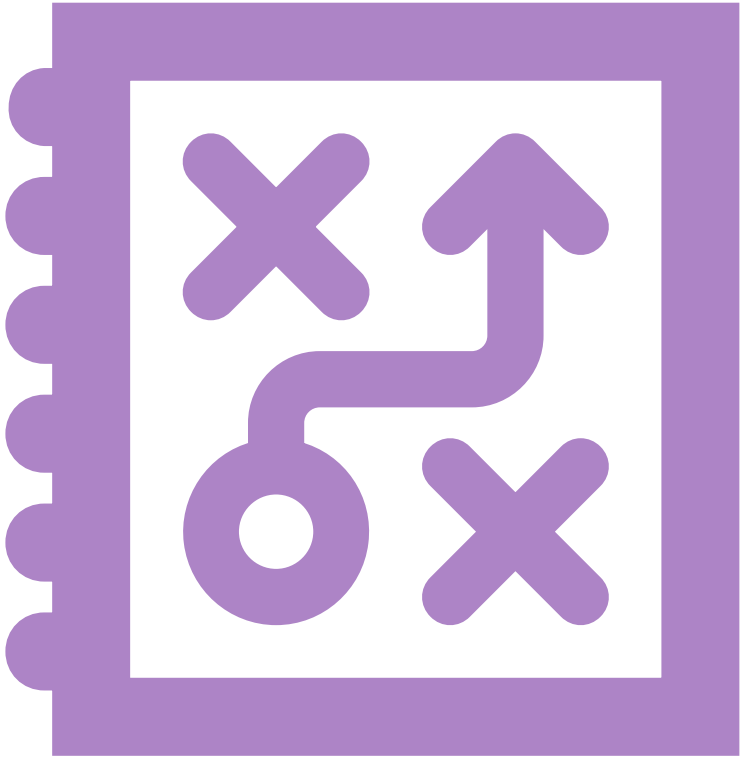
Manual predictions: time-consuming, suboptimal decisions

ADDRESSING CHALLENGES

Machine Learning Regression

Techniques: data normalization, feature scaling, outlier detection

Robust algorithms for skewed, noisy data



LEAD CAPTURE

- Challenges in lead evaluation
- **Lead Classification Model**: Identifying potential customers
- **Status variable**: WON (Success), LOST (Failure)

SOLUTION STEPS

1. Explore skewness, outliers
2. Data transformation, cleaning, pre-processing
3. ML Regression: Predict 'Selling_Price'
4. ML Classification: Predict Status (WON/LOST)
5. Streamlit Interface for interactive predictions

DATA EXPLORATION

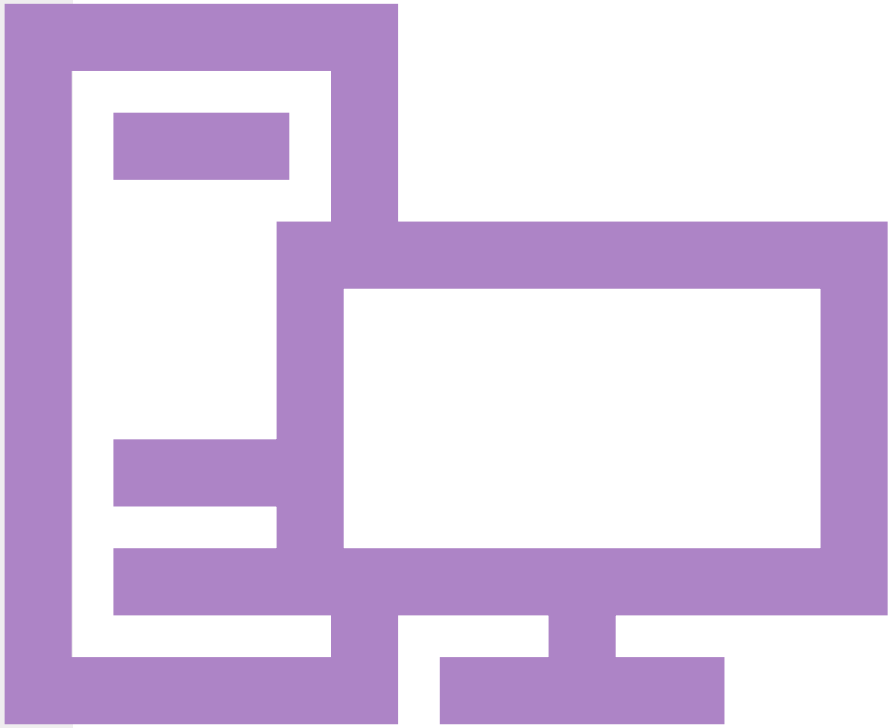
- Analyze skewness, outliers
- Visualization of data distribution

DATA TRANSFORMATION

- Format adjustment, cleaning steps
- Pre-processing techniques applied

ML REGRESSION AND CLASSIFICATION

- Predicting 'Selling_Price'
- Algorithms used, model evaluation
- Predicting 'Status' (WON/LOST)
- Evaluation metrics, model performance



STREAMLIT GUI

- Task input: Regression/Classification
- Interactive input fields for each column
- Predicted 'Selling_Price' or 'Status' output

THANK YOU

“We must find time to stop and thank the people who make a difference in our lives”