PROJECT SYNOPSIS

PROJECT BY:
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SUBJECT:
Machine Learning

TITLE OF THE PROJECT:
Energy Consumption of Steel Industry

GUIDE'S NAME:
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INTRODUCTION:
The objective of this project is to analyze energy consumption patterns in the steel industry using the Steel Industry Energy Consumption Dataset. The dataset provides comprehensive information on energy usage at different stages of the steel production process. By employing machine learning techniques, we aim to gain insights, make predictions, and contribute to the understanding of energy consumption in the steel industry.

AIM:
To predict energy consumption in the Steel Industry using Regression Analysis.

OBJECTIVE:
Utilize regression analysis models such as Simple Linear Regression, Multiple Linear Regression, Polynomial Regression, Lasso Regression, and Ridge Regression to predict energy consumption in the steel industry and draw insights from the regression analysis results. The objective is to predict energy consumption based on variables such as current power factor and lagging current reactive power.

INTENDED OUTCOME:
The project aims to develop a robust regression model that can accurately predict energy consumption in the steel industry based on relevant factors.

DATASET:
Steel Industry Energy Consumption Dataset