

# **Electricity Bill Prediction Report**

## **Final Report**

In this project, we built a system that predicts the next month's electricity bill using past usage data stored in a SQL database.

We used Python and a polynomial regression model to analyze historical bill data of a single user and forecast the upcoming bill amount.

The model provides useful metrics such as Mean Absolute Error (MAE), Mean Squared Error (MSE), and R<sup>2</sup> Score to evaluate how accurate the prediction is.

It can also detect any abnormal spike in the bill and alert the user accordingly.

Finally, we presented the results in a graph and exported the data into a CSV file. This system is helpful for individual users or utility providers to manage electricity usage and prevent billing surprises.