
Logistic Regression

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Abstract

Data thinking Zulip chat data analysis using Linear Regression, Logistic Regression and Embedding

1 Introduction

Here I will briefly describe each of the analyses I performed, why I chose them, and the math equation for the linear regression, logistic regression, and embedding I used.

2 Linear Regression

For linear regression, I used an inbuilt model imported from sklearn library. Plotted it with the help of Matplotlib

3 Logistic Regression

For Logistic Regression, I again used an inbuilt model from sklearn. prepared the data using pandas data frame.

4 Embeddings

I am not sure how I did embedding. vectorizing data and managing dimensionality using TSNE. Plotting it with the help of from "`mpl_toolkits.mplot3dimport Axes3D`".

5 Conclusion

Thanks for the exciting Homework. Learned a lot!

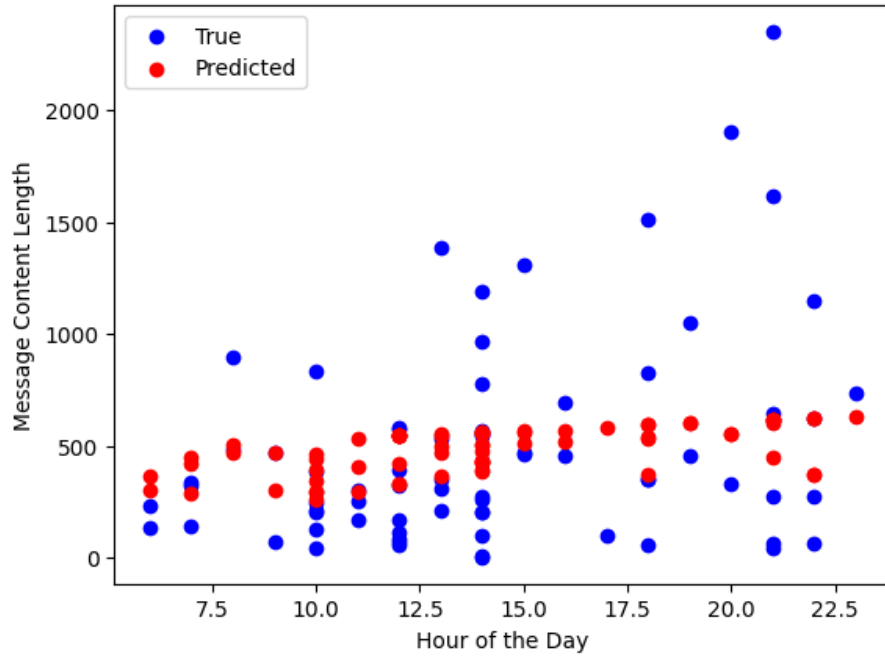


Figure 1: **Linear regression**

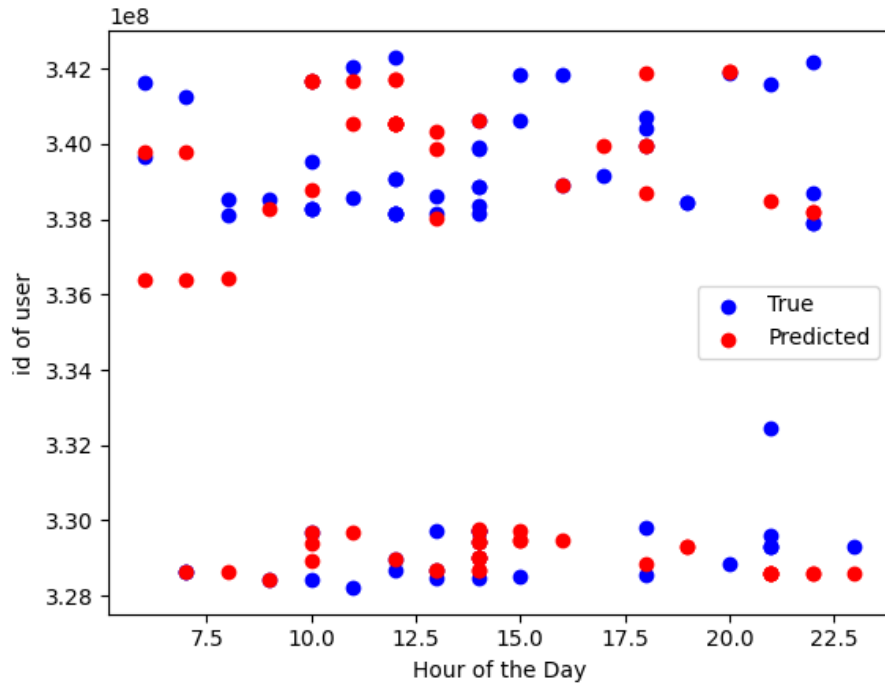


Figure 2: **Logistic regression**

Message Content Embeddings Visualization (3D)

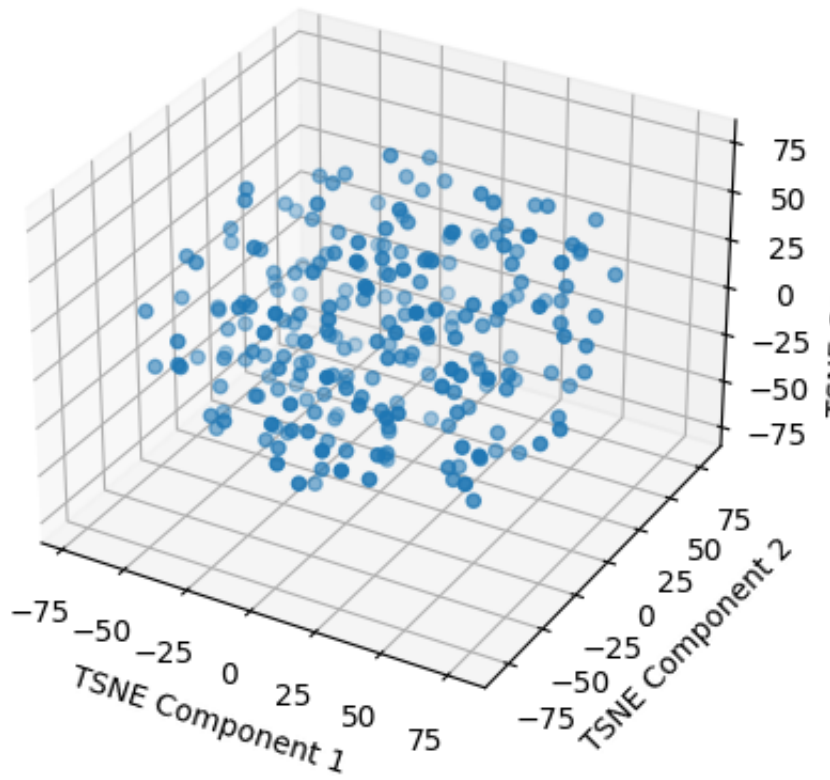


Figure 3: **Logistic regression**