PREDICTING CUSTOMER CHURN USING LOGISTIC REGRESSION

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Abstract:

- Customer churn prediction is vital for improving customer retention strategies.
- This project employs logistic regression to predict customer churn using a real-world dataset.
- Steps include data preprocessing, model training, and evaluation, followed by actionable insights for business decision-making.

Problem Statement

- Customer churn is a critical issue for businesses, directly impacting revenue and growth.
- Identifying patterns in customer behavior that indicate a higher likelihood of churn is essential.
- The dataset includes customer information, and the goal is to predict whether a customer will churn (Yes) or not (No).

Proposed Solution

Loading the Dataset: Import and explore the customer churn dataset.
Data Pre-processing:

Handle missing values.

Encode categorical variables.

Address any class imbalance.

- Feature Splitting: Divide the data into training and testing subsets.
- Model Training: Use logistic regression to train the model.
- Evaluation: Assess model performance using:
 - Accuracy
 - Classification Report
 - Confusion Matrix

Short Video

https://drive.google.com/file/d/IBIV7AoAIVfCcNAzE632XUe6Uhd4_VYlu/view?usp=sharing



https://github.com/Raksh9a171/Final

Output

