

# Hate Speech Detection Using Machine Learning

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## Introduction

Hate speech is a major concern online, leading to cyberbullying and misinformation. This project uses **Random Forest, Naïve Bayes, and Logistic Regression** to classify text as hate or non-hate speech, aiming to improve detection accuracy and promote safer digital spaces.

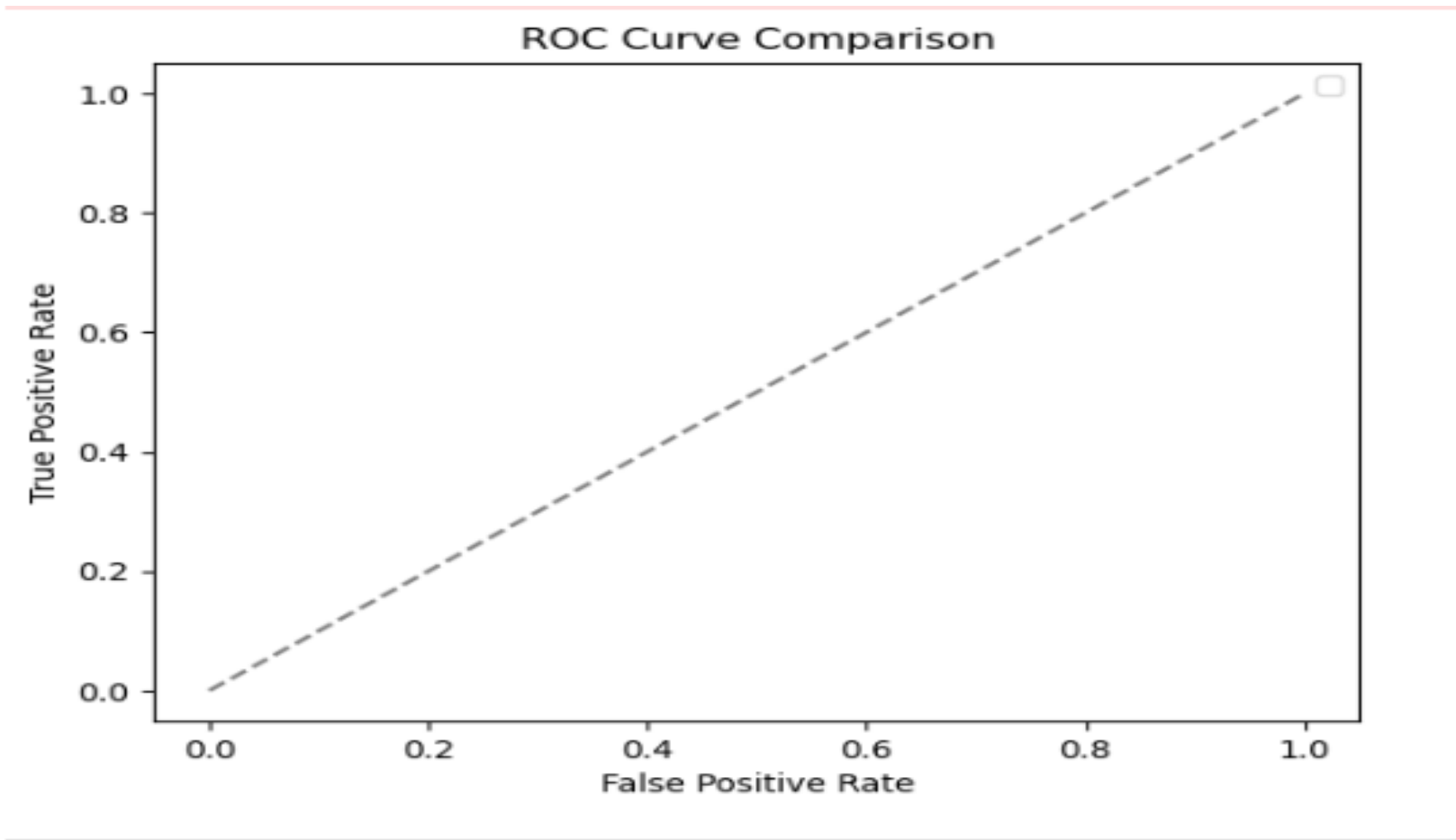
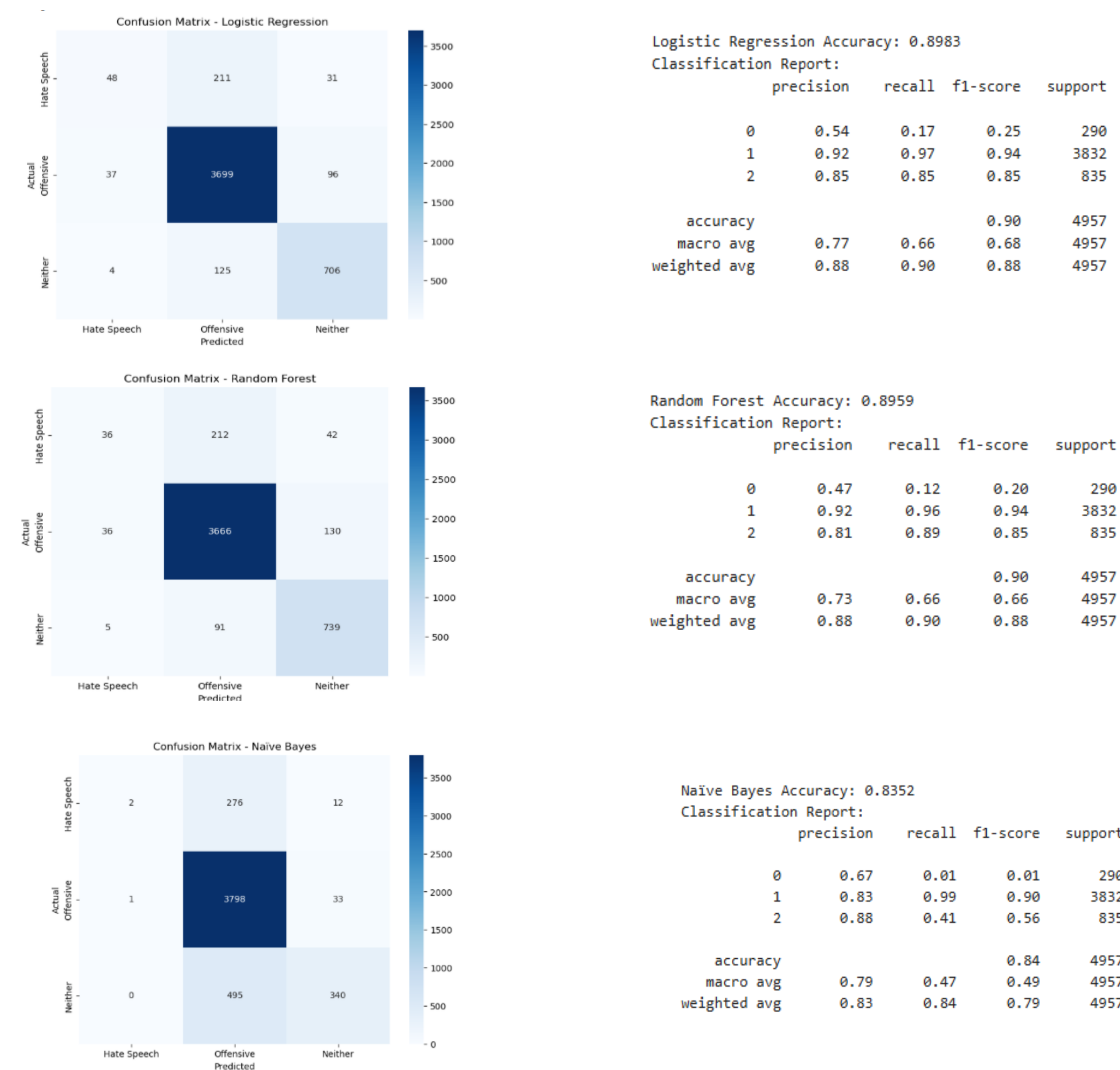
## Objective:

- 1. Apply machine learning models.
- 2. Enhance detection accuracy
- 3. Evaluate model performance

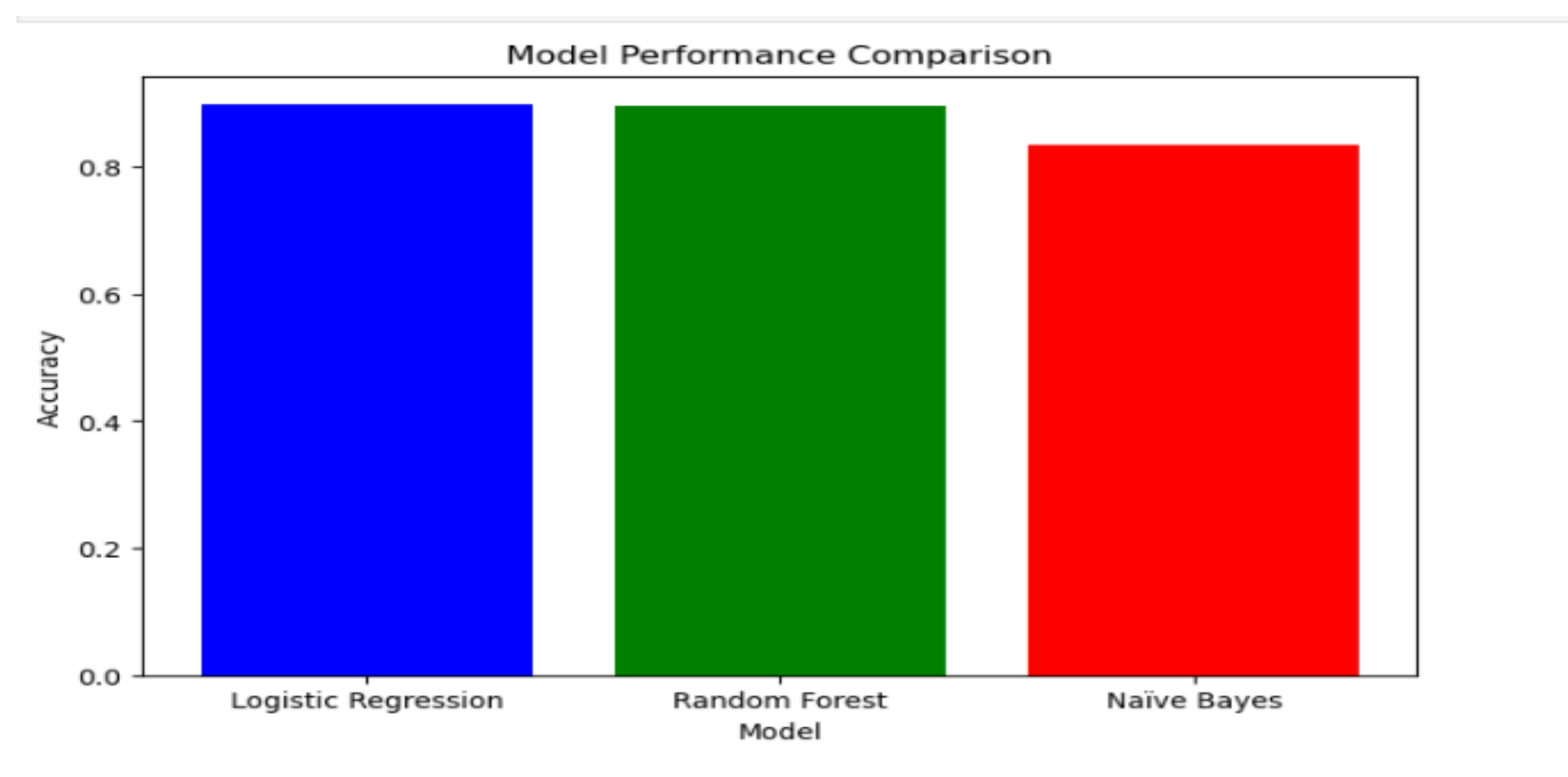
## Methodology

- 1. Data Collection
- 2. Preprocessing
- 3. Feature Extraction
- 4. Model Training (Random Forest, Naïve Bayes, and Logistic Regression) for classification.
- 5. Evaluation accuracy, precision, recall, and F1-score.

## Result



## Evaluation



Random Forest and Logistic Regression achieved the highest accuracy

## Conclusion

The models help automate content moderation, contributing to safer online spaces.

## Future Work

Exploring **deep learning models** and real-time detection for improved accuracy and scalability.

