

North East University Bangladesh

Department of Computer Science & Engineering

Machine Learning Project Proposal

On

Twitter-Sentiment-Analysis ML project

Submitted to:

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Submitted by:

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Project Title: Twitter-Sentiment-Analysis ML project

Project Member:

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Objective: The goal of this project is to build a machine learning model that can accurately predict the sentiment (positive, negative, or neutral) of tweets related to a particular topic. The model will be trained using a dataset of labeled tweets and deployed as a web application that allows users to enter a tweet and get back the predicted sentiment.

Methodology:

- Data Collection
 - Twitter Tweet
- Data Preprocessing
 - Clean the data by removing stop words, special characters, URLs, mentions, and hashtags.
- Feature Extraction
 - Use techniques such as TF-IDF, or Word Embeddings to create feature vectors.
- Model Selection and Training
 - Machine learning algorithms such as Naive Bayes, Logistic Regression, SVM, or Neural Networks.
- Model Evaluation
 - Evaluation using metrics such as accuracy, precision, recall, F1 score, and confusion matrix.
 - Analyze the results and compare the performance of different models.