Mid-Term Final Year Project Evaluation Report on

**TEXT BASED FEEDBACK ANALYSIS**

**Everest Engineering College**

**2022**

**Minor Changes in Project Objectives, Methodology or Evaluation**

Not Applicable

**Annotated Bibliography**

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| --- | --- |
| **SN** | **Reference/Description** |
| 1. | Med hat et al. "Sentiment analysis algorithms and applications." Ain Shams Eng. J. 5.4 (2014). |
|  | This book chapter provides the definition of sentiment analysis also known as opinion mining involves analyzing text to determine the sentiment expressed by the author. This sentiment can also be define as positive, negative or neutral. |
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| 2. | Sun et al. "How to fine-tune BERT for text classification?" China Communications 16.10 (2019). |
|  | This paper defines movie review data, extract features, trains a Naïve Bayes classifier, evaluates its accuracy, and predicts the sentiment of new samples. Fine-tuning BERT (Bidirectional Encoder Representations from Transformers) for classification involves adapting a pre-trained BERT model for specific classification task. |
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| 3. | Guo et al. "Topic-based content and sentiment analysis of Chinese online restaurant reviews." Sustainability 10.10 (2018). |
|  | The paper "Topic-based content and sentiment analysis of Chinese online restaurant reviews" published in Sustainability, volume 10, issue 10 (2018), presents a comprehensive analysis of online restaurant reviews in China. The study combines topic modeling and sentiment analysis to extract valuable insights from customer reviews, aiming to understand customer satisfaction and preferences better. The study highlighted which aspects of restaurant experiences were most positively or negatively received. For instance, specific dishes or ingredients might receive praise or criticism. The study also explored potential regional differences in review content and sentiment, reflecting diverse customer preferences and expectations across different locations in China. The analysis revealed several key topics that frequently appeared in restaurant reviews, such as food quality, service, ambiance, price, and location. |

**Work Division**

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| --- | --- | --- | --- | --- |
| **Task** | **Mr. Adarsha Wagle** | **Mr. Amir Poudel** | **Ms. Dikshya Bhujel** | **Mr. Kamal Lamichhane** |
| **Programming** | **S** | **P** | **S** | **S** |
| **Report Writing** |  | **S** | **P** |  |
| **Sentiment analysis** | **P** | **S** |  | **S** |
| **Topic Modeling** | **S** |  | **S** | **P** |

P=Primarily Responsible , S=Supportings

**Project Progress**

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| **Objective** | **Status** | **Completed (%)** | **Expected**  **Completion**  **Date** |
| Understand the preprocess text data using NLP techniques. | We have completed the review, and  doing the further process. | 75 | May 6, 2024 |
| Train classification models like Naive Bayes and BERT using preprocessed text and sentiment labels. | Done | 100 | June 2,2024 |
| Evaluate model accuracy, precision, recall and F!-score on a held-out test set. | We have implemented using NLP and machine learning. | 50 | June 4, 2024 |
| Evaluate a multi-class classification accuracy of over 80% on the test set. | To be done | 0 | N/A |

**Section 5: Supervisors’ Approval**

From my perspective, the students have done sufficient work to be allowed for the mid-term defense.

Supervisors’ Name: Birodh Rijal

Signature:

Date: 06/20/2024