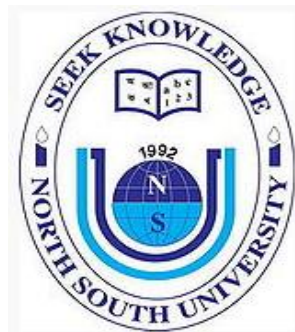


Department of Electrical and Computer Engineering North South University

Senior Design Project Report

**Finding and exploring Similarity, relations, sentiments from
a text, sentence, corpus using different NLP techniques**



Submitted By

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Supervised by
Dr. Mohammad Ashrafuzzaman Khan sir

Assistant Professor
ECE Department

Summer, 2021

Agreement Form

We take great pleasure in submitting our senior design project report on “Finding and exploring Similarity, relations from a text, sentence, corpus using different NLP techniques

”. This report is prepared as a requirement of the Capstone Design Project CSE 499 A & B which is a two semester long senior design course. This course involves multidisciplinary teams of students who build and test custom designed systems, components or engineering processes. We would like to request you to accept this report as a partial fulfillment of Bachelor of Science degree under Electrical and Computer Engineering Department of North South University.

Declared By:

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Acknowledgment

Foremost, we would like to express our profound gratitude to our honorable course instructor, Dr. Mohammad Ashrafuzzaman Khan sir, for his continuous support in our project progress throughout the whole CSE 499 A and B, for his patience, motivation, and immense knowledge. His guidance made our project easygoing. Our sincere thanks also go to North South University, Dhaka, Bangladesh, to provide an opportunity in our curriculum while enabling us to have industrial-level experience as part of our academics. We are also grateful to all the people who took part in our research and shared their valuable opinions regarding this project. Finally, we would like to thank our families and friends for their inspiration, support, encouragement, and proper guidance that kept us focused and motivated.

Abstract

Natural language processing (NLP) is the intersection of computer science, linguistics and machine learning to understand language much like humans do. The field focuses on communication between computers and humans in natural language and NLP is all about making computers understand and generate human language.

It's useful to businesses because it breaks down human language making it easier for machines to analyze automatically .With no-code NLP-driven platforms like Monkey Learn popping up NLP tools are becoming more accessible than ever, helping businesses automatically process huge quantities of text data, streamline their operations, reduce costs, improve customer satisfaction, and more.

We have worked on extracting relations, similarities, entities, characters by using different natural language processing techniques from different books, news articles, emails etc. and displayed them in graph so people can view them easily and quickly . There were errors and we solved them. we have also applied different methods applicable to check which methods are more preferable