The University of Faisalabad

Project name: Text Summarizer

Group members	Roll number
Eman Nadeem	2022-BS-SE-066
Laiba Zafar	2022-BS-SE-126
Maham Siddique	2022-BS-SE-129
Dur e Shehwar	2022-BS-SE-078

Project Abstract

This project focuses on developing a **Text Summarizer** using **Natural Language Processing (NLP)** techniques to automatically generate concise and meaningful summaries from large textual data. The summarizer utilizes extractive and abstractive methods to identify key sentences or generate paraphrased content while retaining the core meaning of the input text. Advanced NLP tools, including tokenization, sentence ranking, and sequence-to-sequence models (e.g., Transformer architectures like BERT or GPT), are integrated to enhance accuracy and coherence. The project addresses challenges such as redundancy, sentence relevance, and information loss, ensuring the output is both human-readable and contextually accurate. This solution can be applied in domains such as news summarization, research paper analysis, and document processing, enabling users to efficiently digest large volumes of information.