Work Statement

*Abde Manaaf Ghadiali (G29583342)*

During our project, I contributed to several key areas, ensuring the smooth execution and success of our objectives. Here's a breakdown of my personal contributions:

***Exploratory Data Analysis (EDA):***

* Analyzed the dataset to gain insights into its structure and content.
* Developed a scatter plot illustrating the correlation between the count of punctuation marks and word count, with the target variable delineated by hue.
* Crafted another scatter plot showcasing the relationship between the count of individual stop words and word count, with the target variable encoded by hue, facilitating a deeper understanding of the data distribution.
* Implemented sentiment analysis using Roberta base on our dataset, providing valuable insights into the emotional tone of the text.

***Model Training:***

* Implemented the training process for both RoBERTa-large and RoBERTa-base models.
* Configured the training parameters, including a maximum token limit of 512 and selectively training only the last two transformer layers, optimizing model performance.

***Documentation and Presentation:***

* Assisted in the creation and formatting of project documents, ensuring clarity in our methodologies and findings.
* Assisted in crafting presentation slides, effectively communicating our project's objectives, methodology, and results.

***Code Refactoring and Optimization:***

* Undertook code refactoring, enhancing the readability, efficiency, and maintainability of our codebase.
* Optimized the performance of our algorithms through code optimization, ensuring streamlined execution and resource utilization.