The QuoteVibes Paper

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Overview of the project:
QuoteVibes uses AI to generate motivational quotes to uplift and motivate users on a daily basis, spreading positivity across Instagram. The goal of the project is to inspire people with positive and uplifting quotes that are posted on Instagram. The project is always seeking new ways to spread motivation.

The Model:
The model is a "google flan-t5-base" from HuggingFace Transformers. We will use it as pretrained to make the training faster. The model will take a list of words that describes the motivation quote as an input X and return the motivation quote based on X (example of x – [Strong, Nice, Cool, etc.]). The training loop will take X as input, then we will use HuggingFace Seq2SeqTrainer and Seq2SeqTrainingArguments for the training loop (fine tuning).

The Data:
The Dataset is "Goodreads Quotes" from Kaggle as CSV. We use load_dataset function from HuggingFace Datasets to load the dataset. Then we split the dataset into Train and Test using train_test_split function from HuggingFace Datasets with test_size=0.2, and shuffle=True. Then we map the dataset with a process function, batched=True and remove_columns=["Index ", "Quote", "Author", "Tags", "Likes"].

The Photo Generator:
First the model will generate a new quote with a random X from the chosen Word List for the Gen. Then it will choose which background (photos) it should use (the background will be chosen randomly). Then it will add the text (generated quote) with a cool font.