**Sentiment Analysis of Economic conditions based on Global News Reports**

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**Objective**

The global economic outlook is very important for making financial decisions going forward for individuals, organizations, and countries. Since economics is a complex domain, it is not feasible for people who are not familiar with economic concepts to accurately measure the sentiments of the markets based on the news headlines. This often leads to hasty decisions based on emotions.

The goal of this project is to build a sentiment analysis system for specific sectors and regions based on news reports which are generated on internet.

**Dataset:**

To build this project, we would be scrapping the data from yahoo news API. The downloaded result from would then be converted to the form of word embeddings where we would perform clustering on top of it. Unlike other models where the dataset is usually static our data set would be dynamic and can pe picked as per the requirements such as sector, region, and time span.

**Methodology**

We intend to accurately classify the economic sentiment for each region, countries and import sectors based on clustering algorithms such as K-Means clustering (amongst others) and Continuous Bag of Words and transfer learning approach.

**Member Tasks**

* **Akshit Walia**: Web Scraping of relevant news articles and generation of raw data.
* **Mayank Raj**: Generation of Word embedding, preprocessing of dataset and model building based on CBOW and transfer learning approach.

**Note:** Evaluation and fine tuning of models would be performed together.