**Analyze the Analysts and Judge their Judges**

An NLP system automatic rating the performance of the analysts

based on the sentiments of the articles they write

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The idea is to build a summary/extract/sentiment analysis model which takes in general financial news feeds and automatically and synthetically turn each article into one or multiple "ops" (opinion tuples) of the format <author, date, target, sentiment score, target time scope>, where 'target' can be stock tickers, companies, sector/industry, indexes, or general economy etc, and 'target time scope' is the time window of the author's sentiment against the target, (current/days to come, weeks to come, months to come, quarters to come, years to come etc), and finally, a positive sentiment is toward 'buy' and a negative sentiment is toward 'sell'.

After these ops have been constantly and accurately accumulated AND cross-referenced with the individual target's actual market performance, TWO intesting applications follow:

a. an objective rating system for the analyst can be drawn from how well the individual's ops match the actual market trend.

b. when new ops come in the system in each new day, can the system generate composite crowd-based ops which potential would out-rate all individuals?

Of course, a., in particular, b. is a bit beyond NLP, so this project should focus on the summary/extract/sentiment analysis model itself.

Moreover, on top of the sentiment analysis, the challenges are identifying the target(s) and the target time scope, which might exceed the scope of this project.

Finally, it is also interesting on varying the boundaries of potential ops. (sentence level? paragraph level? article level?) too.