**Project Proposal**

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1. Predict fine-grained emotions with emojis and emoticon on twitter data

Prior work has been found on predicting fine-grained emotions with deep learning, while majority research is focusing on text. Our hypothesis is emojis and emoticon by nature carry emotions of users, we should be able to improve model performance by adding them.

1. Social media and INDEXNASDAQ

Many financial companies are using twitter as an indicator of people’s confidence in market. We’d like to find out whether emotions in tweets can relate with stock price, so that we can predict the change of stock price using tweets. Specifically, we use INDEXNASDAQ as the target.