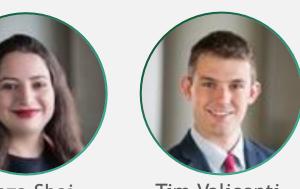


- Hopes to capture consumer sentiment and preferences
- Proposed we forecast which trends will hit market in a year
- Used to guide buying and product development strategy
- How is consumer sentiment quantified?
- Which models to forecast with?
- Team comprised of data scientists and consultants

SLOAN SCHOOL





Jit Tan

The Team

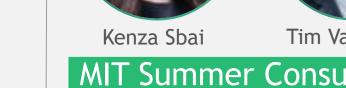




Faculty Mentor: Vivek Farias

PhD Advisor: Deeksha Sinha

Julien Bohne BCG Consultants & Data Scientists



MIT Summer Consultants & Data Scientists

BCG Project Leader

twitter



- 1. Using a seed of selected relevant influencers
- 2. Curating their mutual friends on Twitter to keep those who are focused on the same segment

Trend Guidance

3. Collect the users Tweets (text, date, likes...)

Google Trends



- 1. Used APIs to live connect to entire Google Search corpus - refined using the appropriate category filters
- 2. Used a small corpus of 450 terms to test our first forecasting and clustering methods
- 3. *Issue: data reflects demand of trends that already hit market - need earlier signals

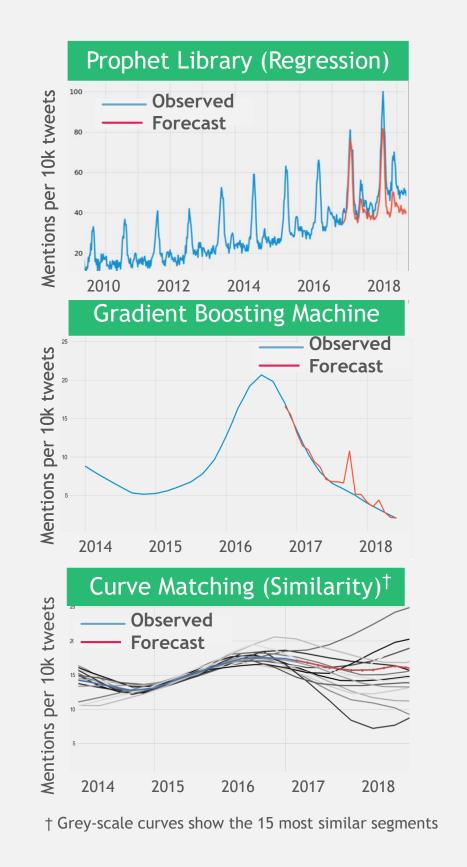
Social Media Data 🤎

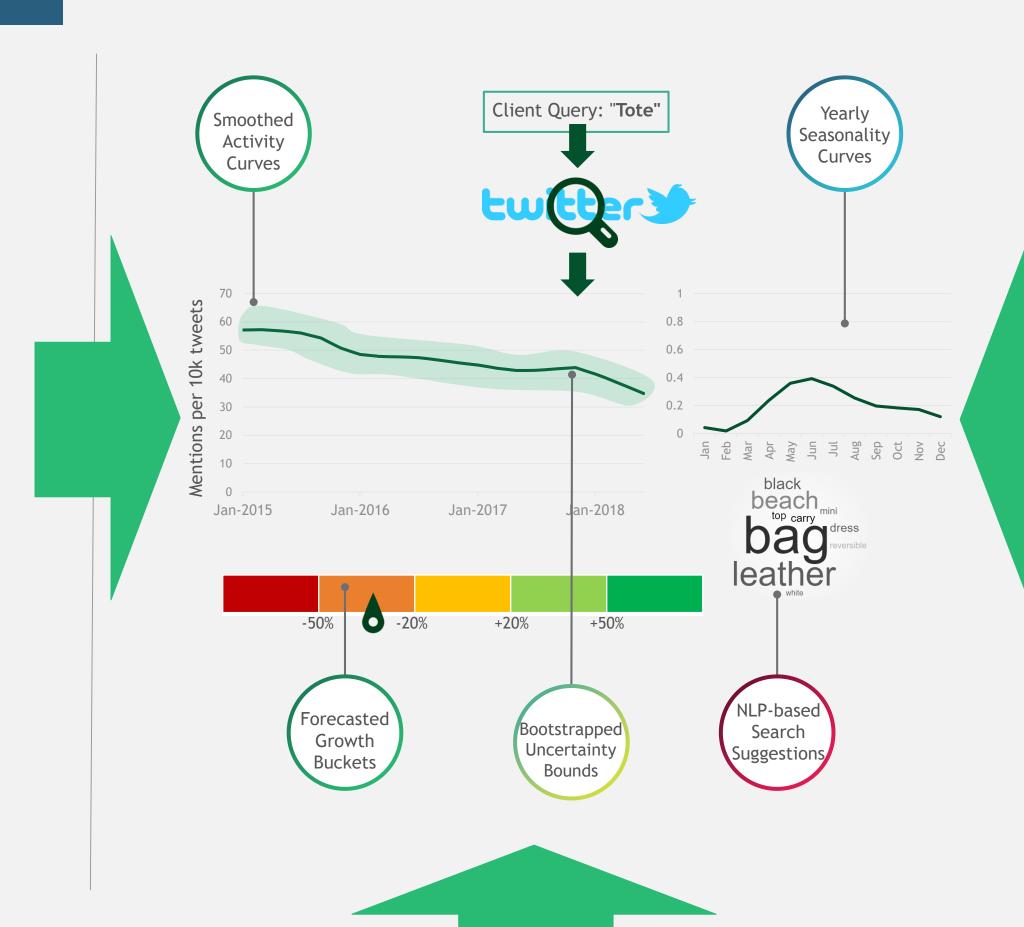
Influencers

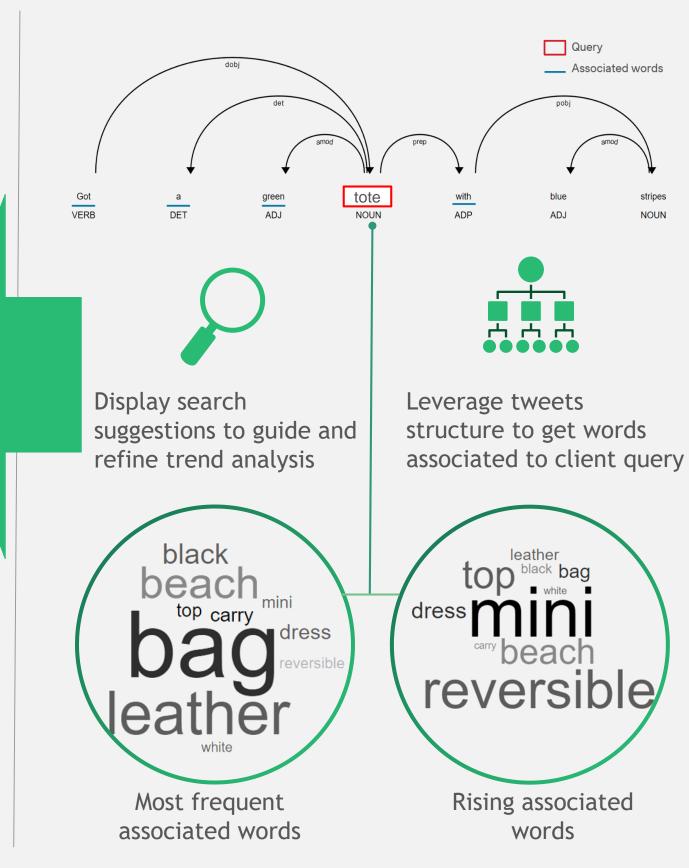
3.5 million tweets from 1240

different accounts

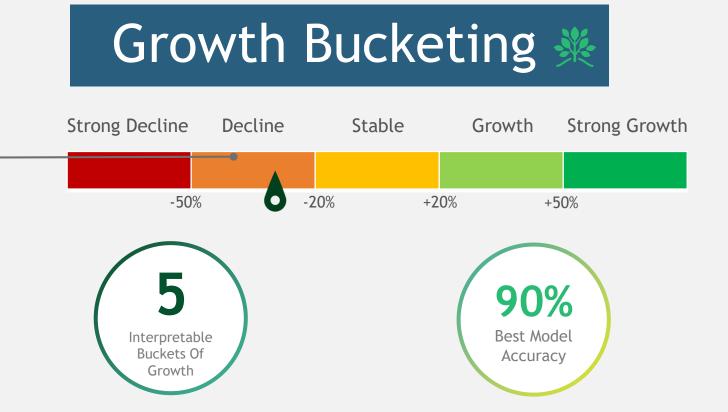
Trend Forecasting 📶

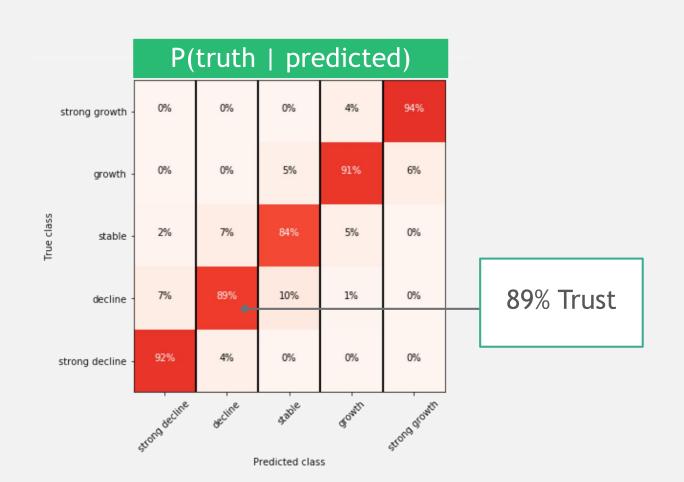




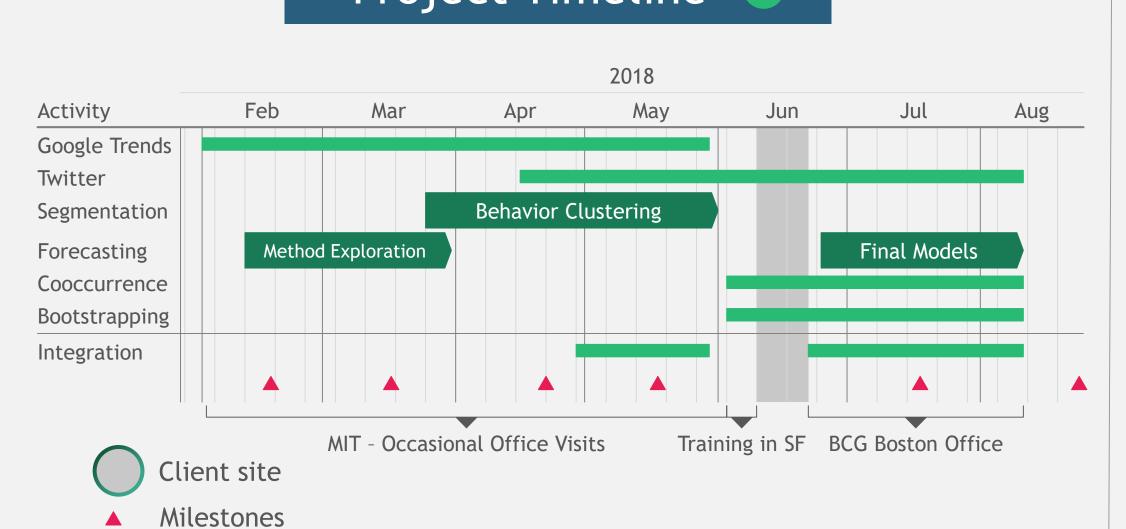


Declining Trend Observed Forecast Mentions per 10k tweets 2015 2014 2016 2017 2018





Project Timeline •



The Impact





- **CLIENT**
- Designed features for the overall solution provided to the client
- Integrated our work to the solution through an ETL pipeline
- Provided real-time insights on consumer trends
- Improved trends analysis for product developers and buyers' decision making



- User-test the solution with client users Continue aggregating Twitter data to get the most relevant analysis
- Evaluate the effectiveness of decisions made based on our solution for future development cycles