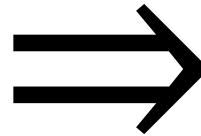
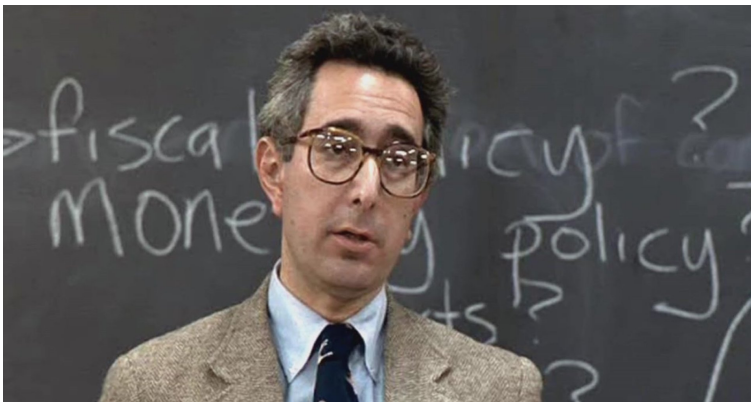
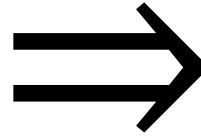


Instructor Ratings and Categorization using NLP

By: Pranjal Bajaj,
Nicholas Wong & Weida
Xu

Instructor quality can make or break the classroom experience



Problem Statement

1

Hard to choose classes
without prior information
about instructor quality

2

Reviews exist online but hard
to compare among instructors
without a consistent metric

Our solution

The screenshot shows the CULPA.INFO website interface. At the top is a dark blue header with the CULPA.INFO logo on the left and navigation links (Gold, Silver, FAQ, Style Guide, Contact) on the right. Below the header is a light blue sidebar on the left with a 'Write a Review' button and a list of academic categories. The main content area is titled 'Economics' and shows '108 Instructors / 89 Courses'. It features two columns: 'Browse by professor' listing names like Stefania Albanesi and Marcellus Andrews, and 'Browse by course' listing various economics courses with their IDs.

CULPA.INFO

Gold Silver FAQ Style Guide Contact

Write a Review

Economics

108 Instructors / 89 Courses

Browse by professor

- Albanesi, Stefania
- Ancona, Aviva
- Andrews, Marcellus
- Arkonac, Seyhan
- Ash, Elliott
- Bagwell, Kyle
- Bai, Jushan
- Bose, Satyajit
- Burgstaller, Andre
- Casella, Alessandra
- Che, Yeon-Koo
- Chiappori, Pierre
- Chichilnisky, Graciela

Browse by course

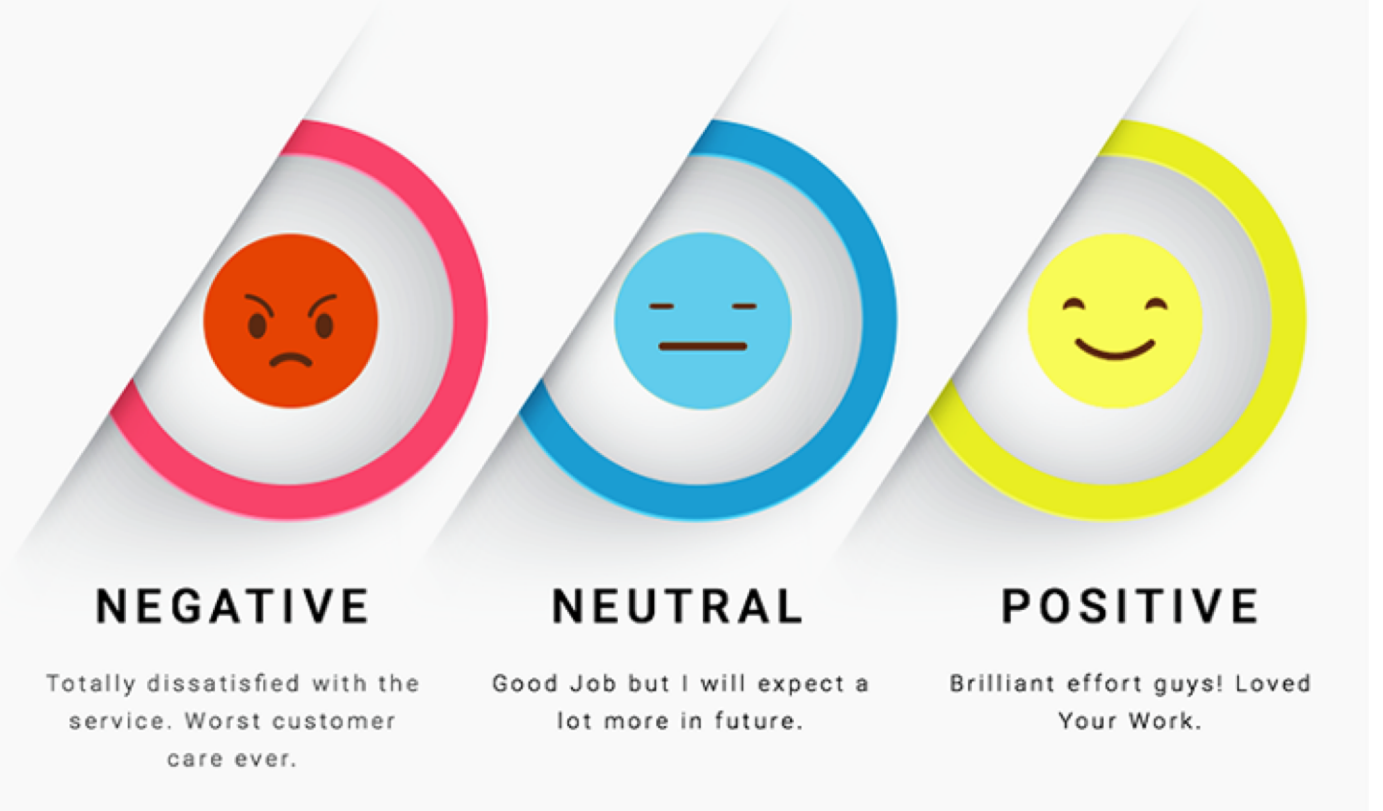
- [ECON BC1003] Introduction to Economic Reasoning
- [BC1001] Introduction to Macroeconomics
- [BC1007] Math Methods for Economics
- [W1105] Principles of Economics
- [BC2010] Economics of Gender
- [BC2029] Fed Challenge Workshop
- [W2257] Global Economy
- [ECON X2075] Logic and Limits of Economic Justice
- [BC2411] Statistics for Economics
- [ECON BC2014] Topics in Economic History: Globalization and In
- [BC2014] Topics in Economic History: Latin America
- [BC3045] Business Cycles
- [BC3017] Business Organization
- [BC3029] Development Economics

- Use reviews from CULPA.info to generate a score using sentiment analysis
- Score will be based on weighted percentage of positive reviews (similar to RottenTomatoes score for movies)
- Weighting will be determined by the fraction of 'agree' votes, i.e. $\frac{Agree}{Agree + Disagree}$. If no votes, then weight will be the average weight for the reviews for instructor.

Data & Methodology

- Text of reviews to be scraped directly from the CULPA.info website, along with agree/disagree votes
- Sentiment analysis done with NLTK package in Python (using Naïve Bayes Classifier)

SENTIMENT ANALYSIS



Conclusion

1

Help students get the best of
Columbia!

2

Help professors improve!