

Amazon Product review Analyzer with first similar product

Subrahmanya Sai Bharadwaj Gandrakota | Advisor : Dr. Nathan Eloë

School of Computer Science and Information Systems | Northwest Missouri State University

Objective

- How you gonna choose a product in amazon site ?
- Usually we will search for category of the required product
- we will look into ratings which are given by the users who already purchased it.
- This project makes an advantage to the people who would like to compare the reviews
- this project will take an product url as an input to the flow retrieves the title and price details and customer reviews of given product and first product in the suggestions (similar) products
- so there will be a comparison of two identical products

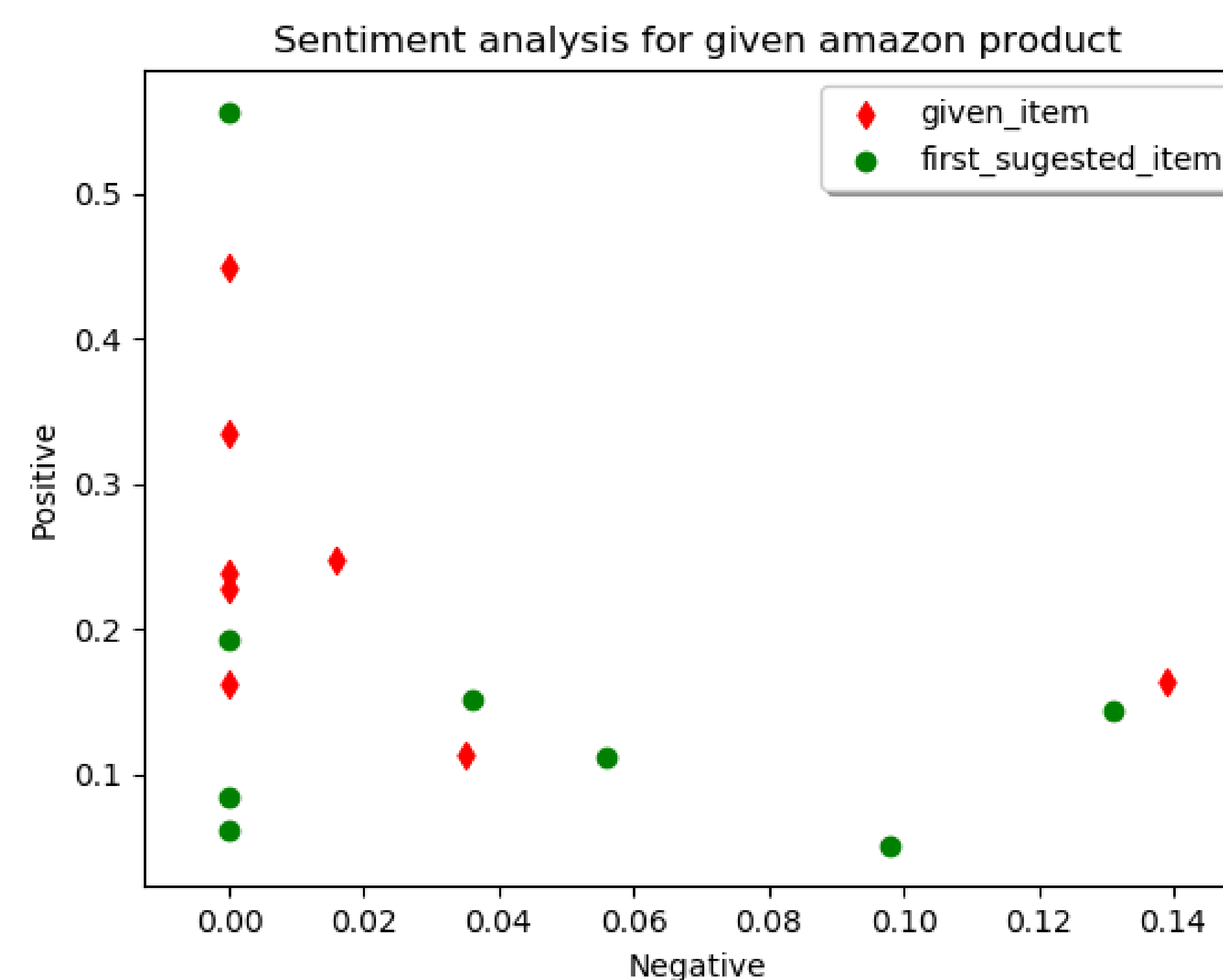
Procedure

- Scrap the given amazon product page and get the details of the product
- Retrieve the customer reviews from the given page and apply the sentiment analysis

- Automatically retrieves the first suggestion product and retrieve the product details and customer reviews
- Apply sentiment analysis on the customer reviews and plot them in 3d graph such that most of the positive reviews for a product will be in the positive axis

Results

Below 2D plot shows the analysis of the customer reviews and first suggested product



Screen shot showing the it automatically retrieves the first suggestion product details

```
url is modified
suggestion product title and details
product title
Reebok Men's Workout Plus Cross Trainer
product price details
$20.88 - $160.34
```

Conclusion

- With this application I have performed sentiment analysis
- on customer reviews of given product and first product in the suggestion list
- As the input product is 2017 HP Chromebook 11.6 inch Premium Flagship Laptop as input suggestion was HP 15-bs234wm Intel Pentium N5000 Quad Core
- After applying analysis from the graph can conclude that
- the given product has more positive reviews than suggested product