

Amazon Alexa Review - Sentiment Analysis

Shashwat Srivastava

PES1PG23CA126

Section: C

Problem Statement

Analyzing the Amazon Alexa dataset and building classification models to predict if the sentiment of a given input sentence is positive or negative.

URL: <https://www.kaggle.com/datasets/sid321axn/amazon-alexa-reviews/data>

Few records of Data

amazon_alexa.tsv (514.75 kB)



Detail Compact Column

5 of 5 columns ▾

About this file

Add Suggestion

Amazon Alexa users reviews

# rating	date	variation	verified_reviews	# feedback		
0 total values	2162 total values	[null] etc." 1 Other (475)	85% 0% 15%	[null] so that is reason e... Other (248)	92% 0% 8%	2970 total values
5	31-Jul-18	Charcoal Fabric	Love my Echo!	1		
5	31-Jul-18	Charcoal Fabric	Loved it!	1		
4	31-Jul-18	Walnut Finish	Sometimes while playing a game, you can answer a question correctly but Alexa says you got it wrong ...	1		
5	31-Jul-18	Charcoal Fabric	I have had a lot of fun with this thing. My 4 yr old learns about dinosaurs, i control the lights an...	1		
5	31-Jul-18	Charcoal Fabric	Music	1		

Description of each attribute

- Rating: rating out of 5
- Date: date of purchase
- Variation: which model they've purchased
- Verified Reviews: Feedback from the customer
- Feedback: 0 (negative) or 1 (positive)

Learning Methodology/Algorithm

- Random Forest
- K fold cross-validation
- XGBoost
- Decision Tree Classifier