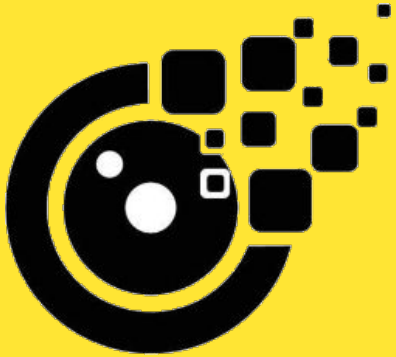


SentiLens

Tina Vu
20240203

Uncover review's hidden sentiment

Understand thousands reviews at a glance

Know what reviews are about

More informative than simple star ratings

Datasets - Preprocessing

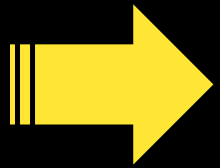
TEXT:
<String>

I charge it at night and skip taking the cord with me because of the good battery life.

ASPECTS:
<Array of dict>

[{'term': 'cord', 'polarity': 'neutral', 'from': '41', 'to': '45'},

{'term': 'battery life', 'polarity': 'positive', 'from': '74', 'to': '86'}]



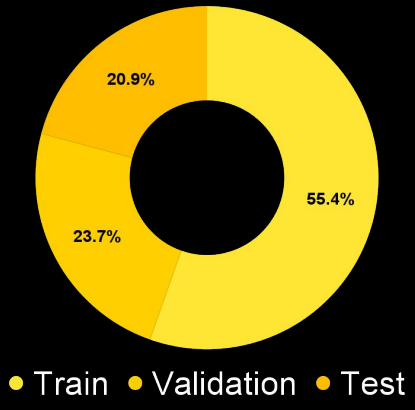
WORD TOKENS:
<Array of str>

[I, charge, it, at, night, and, skip, taking, the, cord, with, me, because, of, the, good, battery, life, .]

ASPECTS UNIFIED BIO TAGS:
<Array of str>

[O, O, O, O, O, O, O, O, O, B-POS, O, O, O, O, O, O, O, B-POS, I-POS, O]

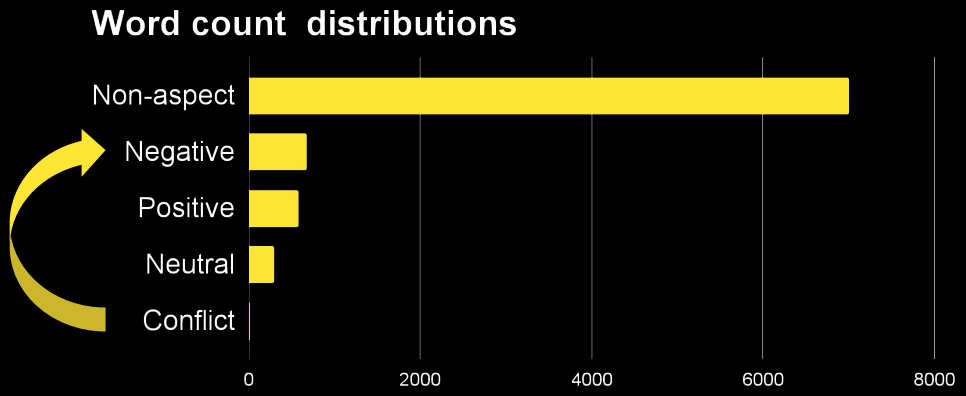
Datasets - EDA



3,836 records

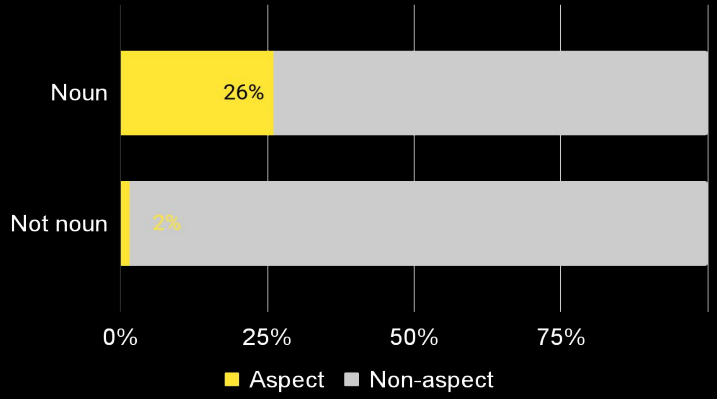
1:20

aspect : non-aspect

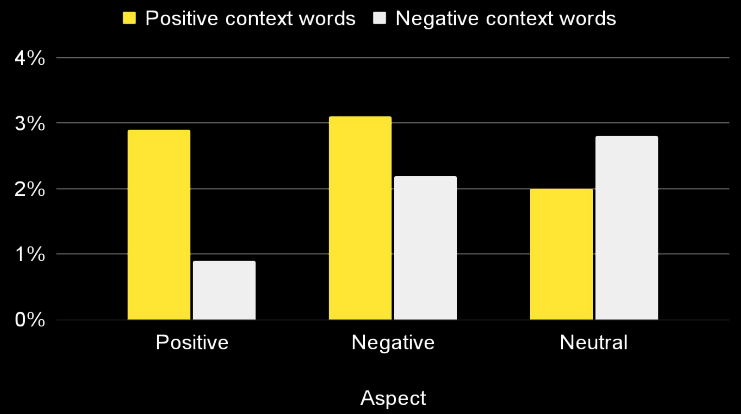


Datasets - EDA

Word's part of speech



Aspects & context words' sentiment



Model performance - CORNELL F1

Actuals

Mac version of Microsoft (Positive)

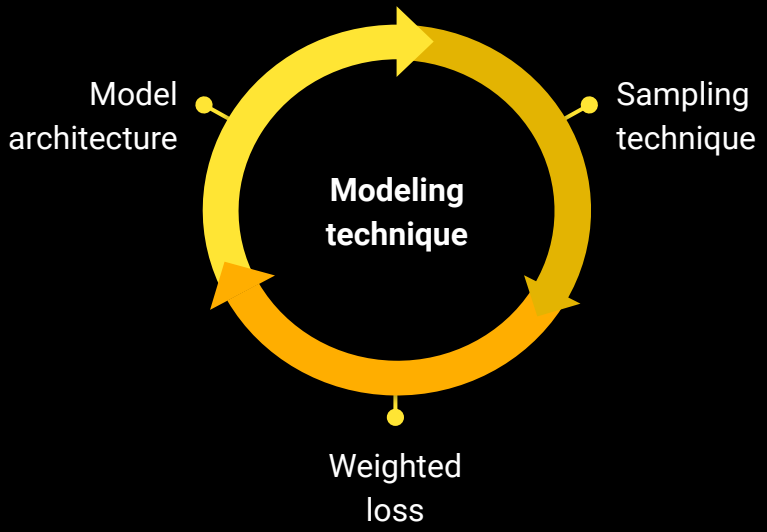
Predictions

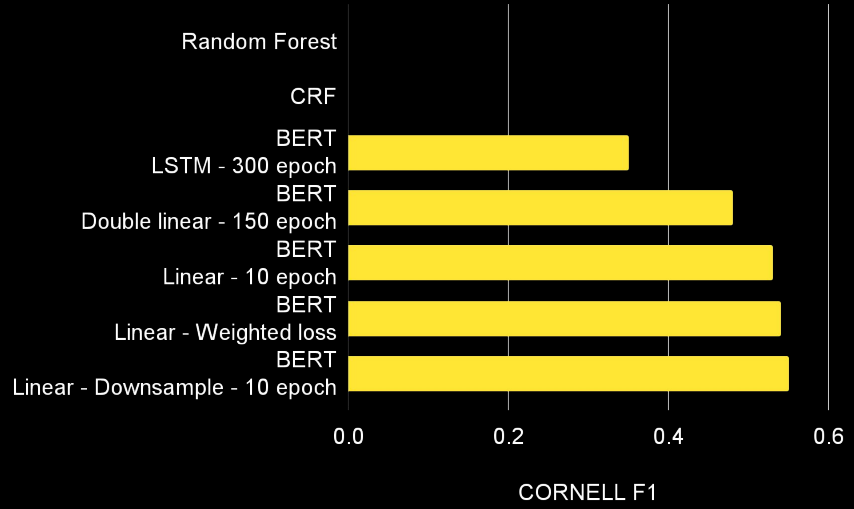
Mac version of Microsoft - POS ✖

Mac - POS version of Microsoft - NEG ✖

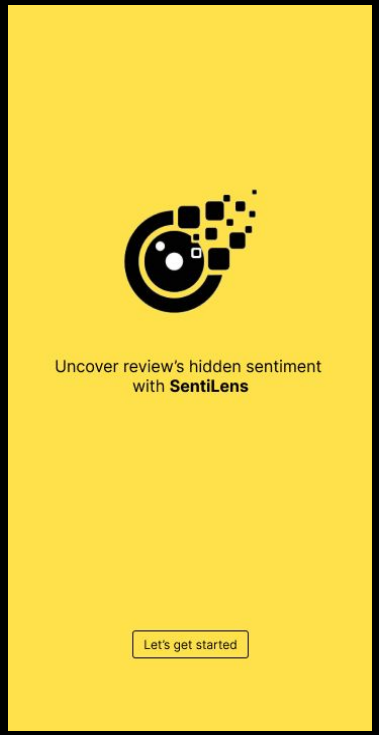
Mac version of Microsoft - POS ★

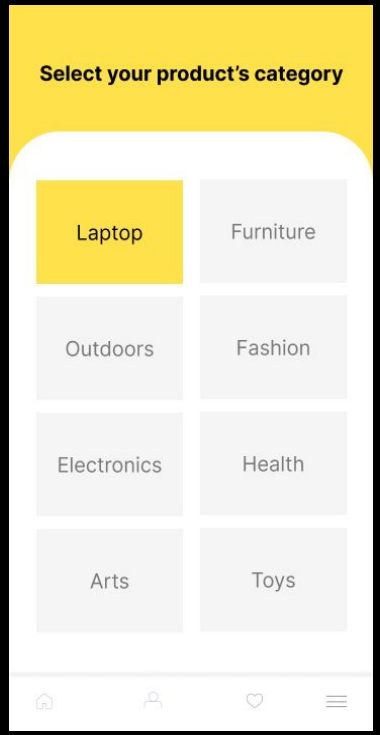
Model comparison

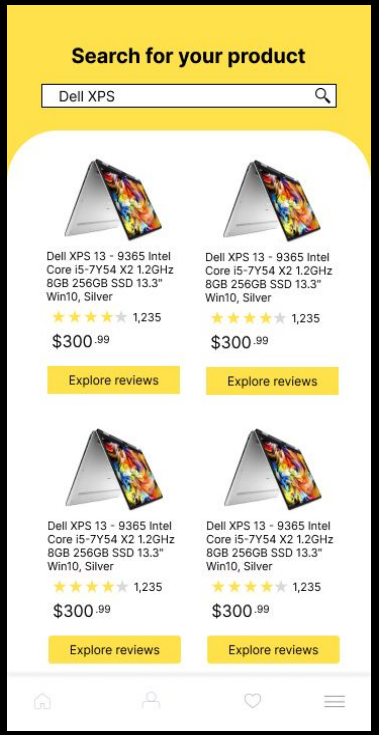


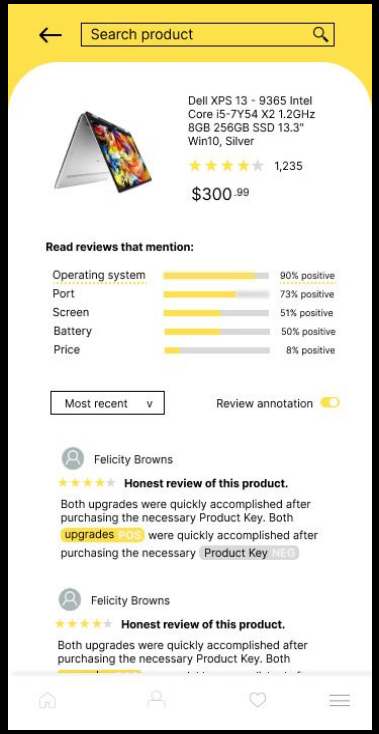


Demo - End-users

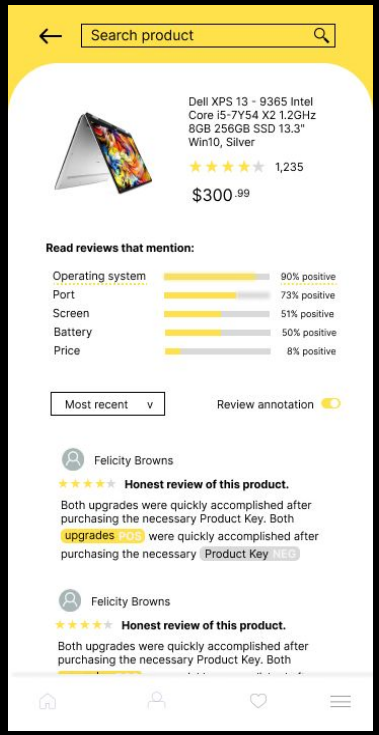




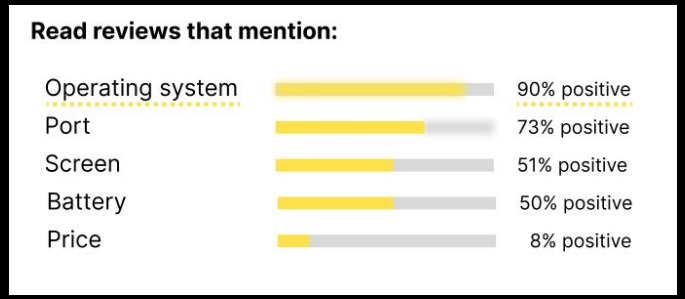
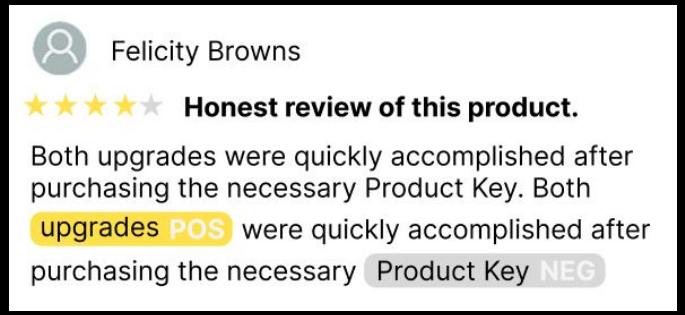




Demo - End-users



ASPECTS SUMMARY



ASPECTS HIGHLIGHT