

LHL_mini_ project_V

By: Jesse Randolph



Linktree:

<https://linktr.ee/jesserndlp>





Project Goal: *Detecting duplicate Questions on Quora*



Over 3 million people visit Quora every day, so it's inevitable that many people ask similar (or the same) questions.

Quora

How would this positively impact Quora and its users?



Time

Users wouldn't waste time asking the same question



Answers

Users would find answers quicker



Space

This saves Quora from using extra computing power



Longterm

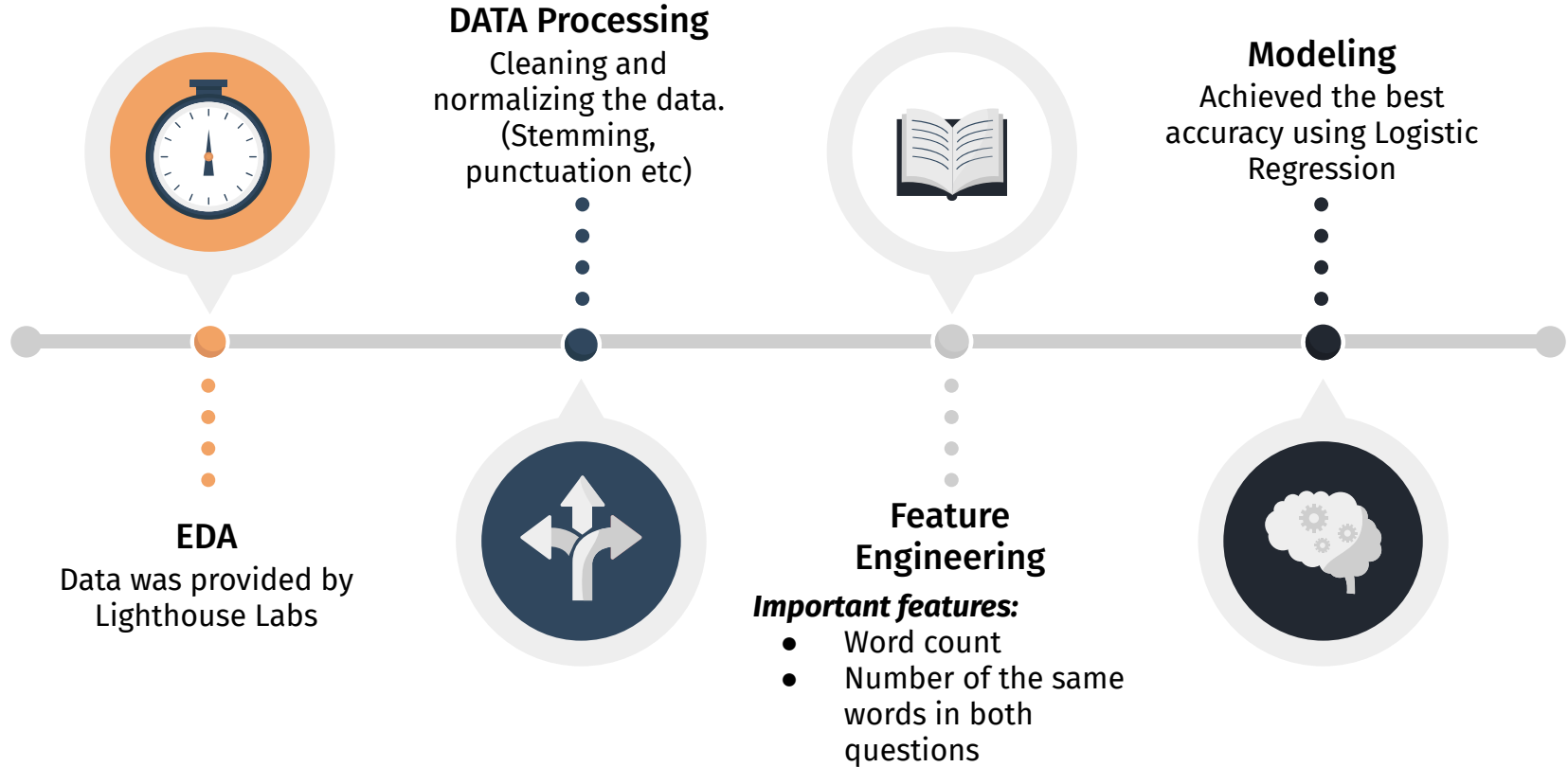
Saves Quora from storing duplicate info



Experience

Provides users with a better platform experience

Project Roadmap



Exploratory DATA Analysis

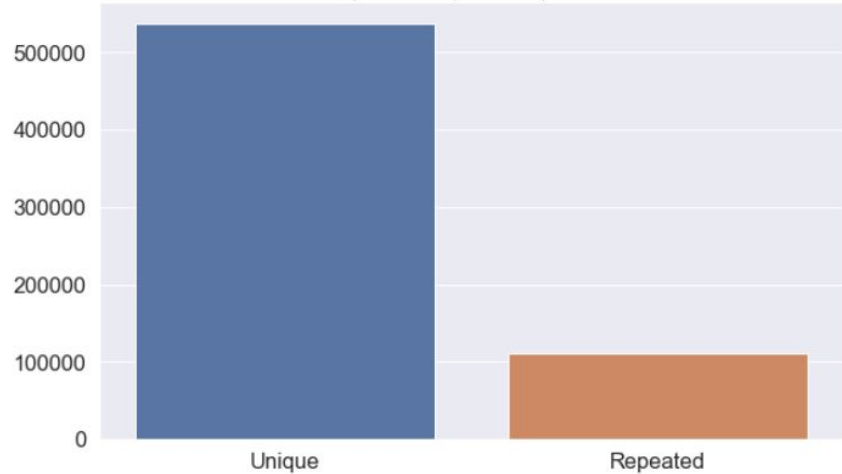
Total number of Unique Questions are:
537933

Number of unique questions that appear more
than one time: 111780 (20.77953945937505%)

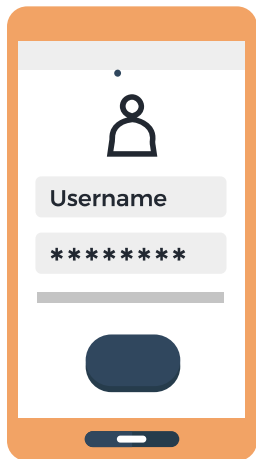
Max number of times a single question is
repeated: 157



Unique vs Repeated questions



DATA Preparation



- Methods:
- Normalizing
 - Stop Words
 - Removing Punctuation
 - Tokenization

From:

**"Would you
ever date Ryan
Gosling's left
Toe?"**

To:
**would date
ryan gosling
left toe**



Feature Engineering

Features models were Trained on:

```
features = df3[['is_duplicate',  
'q1_word_num',  
'q2_word_num',  
'total_word_num',  
'differ_word_num',  
'total_q1q2_unique_word_num',  
'total_nostop_len_diff']]
```

Model: sklearn Logistic Regression

73%

*This model had the best
accuracy score out of all
of the algorithms used*





Thanks for Listening!

Questions?

LHL_mini_project_V

By: Jesse Randolph

Linktree:
<https://linktr.ee/jesserndolph>

**Graphics by Slidesgo*

