

Spoiler Busters



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Our First Ideas

An overview of the Spoiler Blocker Extension Capstone Project.

Contents of the Presentation

Splitting the Problem

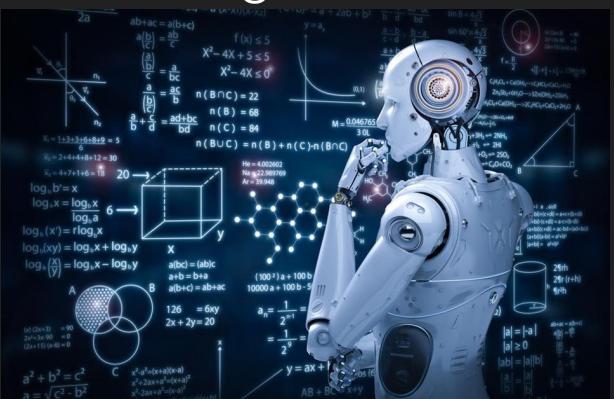
Ideas – ML Algorithm

Ideas – Web Browser Extension

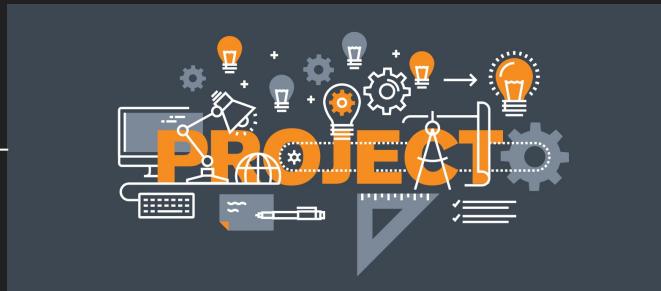
Ideas – Technologies

Concepts we might encounter

Splitting the Problem

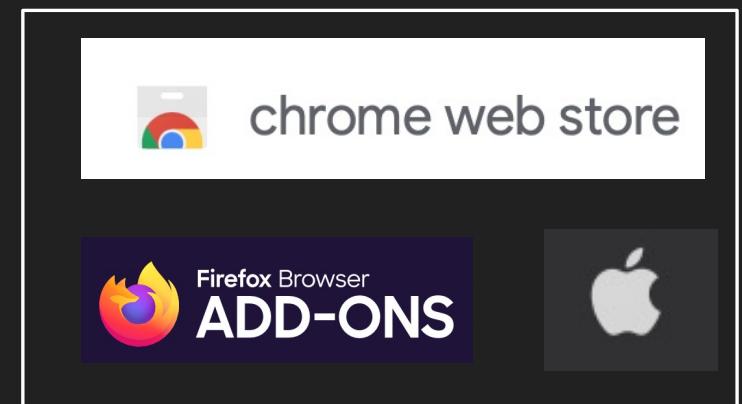


Data Sources



Algorithm

Web Browser Extension



Product Manager



Ideas – ML Algorithm

Data is the most important.

- Train and test a model using Kaggle's IMDb dataset.
- Improve the model by scraping data from the IMDb website. A labelled dataset will be created using the [reviews on IMDb](#), which are tagged with spoilers (if any).
- Data can then be scraped from numerous other webpages that have reviews of film, series, book, etc. Examples: Goodreads, [TVtropes](#)

Algorithm

- A classification algorithm will be needed to detect whether a piece of text contains any spoilers.
- The specifics of the algorithm will be determined after some exploratory data analysis.
- Read research papers to carry out background literature when taking a decision.



Ideas – Web Browser Extension

1

Understand the current extensions in the market by going through the Chrome Store and user ratings.

2

Extension can have the feature of replacing spoilers with multiple options.

3

Focus will be on creating a Web Browser extension that is easy to use over one that looks fancy.



Spoiler Protection 2.0

Offered by: <https://wecdev.com>

★★★★★ 78 | Fun | 10,000+ users



IMDb Hide Episode Spoilers

Offered by: Silver

★★★★★ 18 | Accessibility | 1,000+ users



Unspoiler

Offered by: www.unspoiler.tv

★★★★★ 100 | Social & Communication | 9,000+ users



Hide Spoilers!

Create custom filters to hide potential spoilers. Any text which matches the filters will be covered with a black box. Hovering over the text will display it.

★☆☆☆☆ Matthew

42 users



Spoiler Slayer

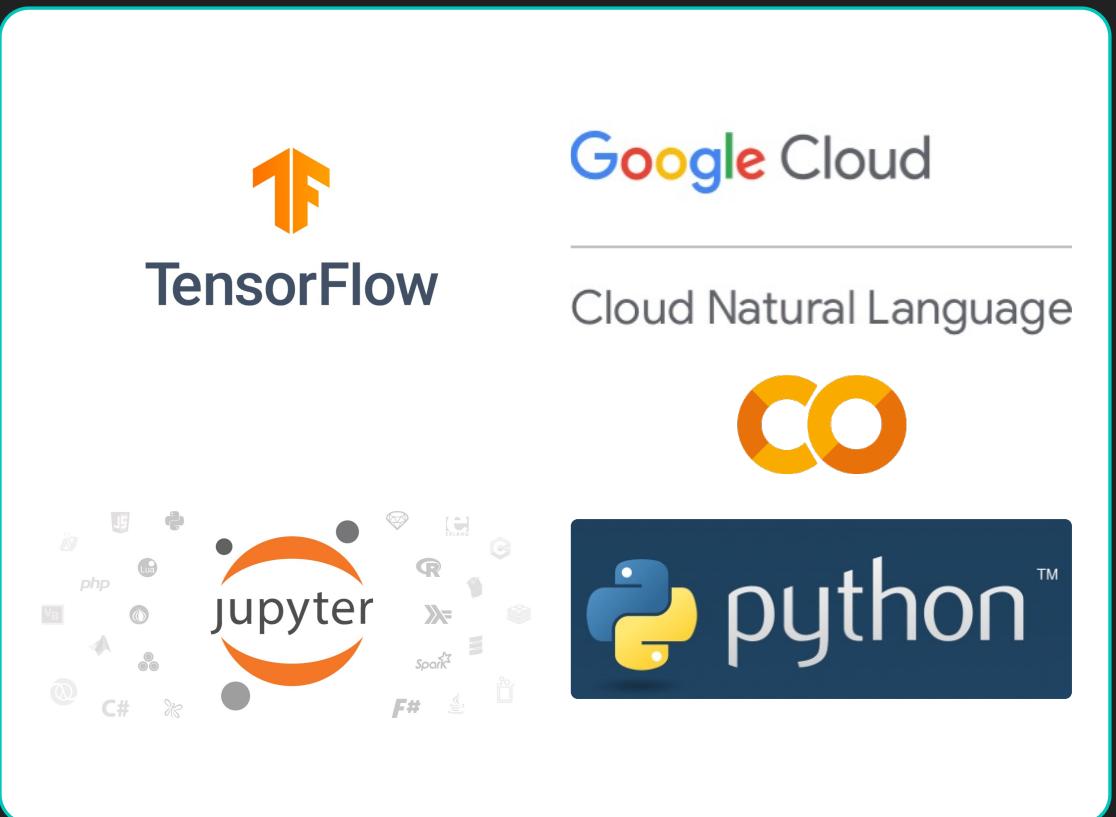
An open source, extensible, and simple spoiler blocking plugin with out-of-the-box support for Facebook, Reddit, Twitter, Google News, and more!

★☆☆☆☆ Brett Profitt

36 users

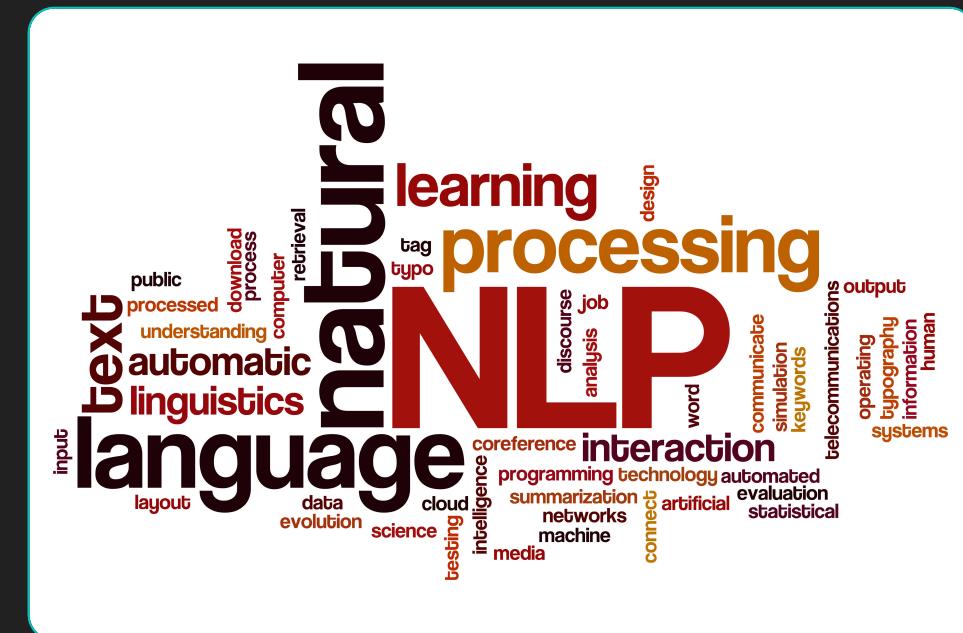
Ideas – Technologies

- Google Cloud Platform can be used to build, manage and deploy the spoiler detector algorithm.
- Google Natural Language Processing capabilities.
- Jupyter Notebooks and Google Colab Notebooks.



Concepts we might encounter

- Natural Language Processing
 - Tokenization
 - Bag of Words
 - Neural Networks – TensorFlow
 - Transfer Learning
 - Creating Web Browser Extensions
 - <https://aclanthology.org/P19-1248/>
 - <https://github.com/zhiming-xu/spoiler-detector>



Thank you for listening!
Any feedback?