

Technical Report

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Introduction

API Wrapper Package

Name: newspaper

Provides functions for NewsAPI. Returns tibbles.

Recommender System

- implemented through Shiny app
- has authentication
- have to train the system first so there's data to create logistic regression model

Model

- logistic regression model predicting probability a user will like some news article
- predictors:
 - readability level (see how to leverage some API or R package)
 - length (scrape text using rvest)
 - categories (e.g. Fashion, Sports, tech)
 - sentiment (positive/negative - use Bing and AFINN scores)
 - sensationalism level (Andrea Boskovic's project)
 - languages

Storing User Data

- MongoDB database
- stores each news link with its statistics, and whether the user liked it or not
- imported as data frame using mongolite package