

Capstone Final Project Presentation

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WordQuest

- The application to predict the next words
- An adventure for word hunters!

About the App

- This project presents an algorithm model for predicting the next word in the Shiny application. From the SwiftKey database (news texts, blogs and Twitter), made available by Coursera during the Data Science Capstone course, a word prediction model was developed. For this, the data were cleaned (removal of special characters, punctuation, numbers and white spaces), tokenized and converted into n-grams of 1 to 4 words, considering the frequency of the words. Having the data classified by n-grams, a prediction model was elaborated, based on the back-off model.

Use the App Online

- The WordQuest application will assist you in word prediction, optimizing the search time for the right words when writing a text. To use it is simple, just enter the text in the **Type your text in the box to obtain the predicted word** box that the application returns the words predicted in the **Word Prediction** box. See the example below:
- The application is available online. There is no need to install it!
- The app is hosted here: [WordQuest](#)

Source Codes

Please, refer to the link below for the source code for ui.R and server.R files.

[GitHub repository](#)

This app was created as a project during the Data Product course from Coursera.

Thank you