

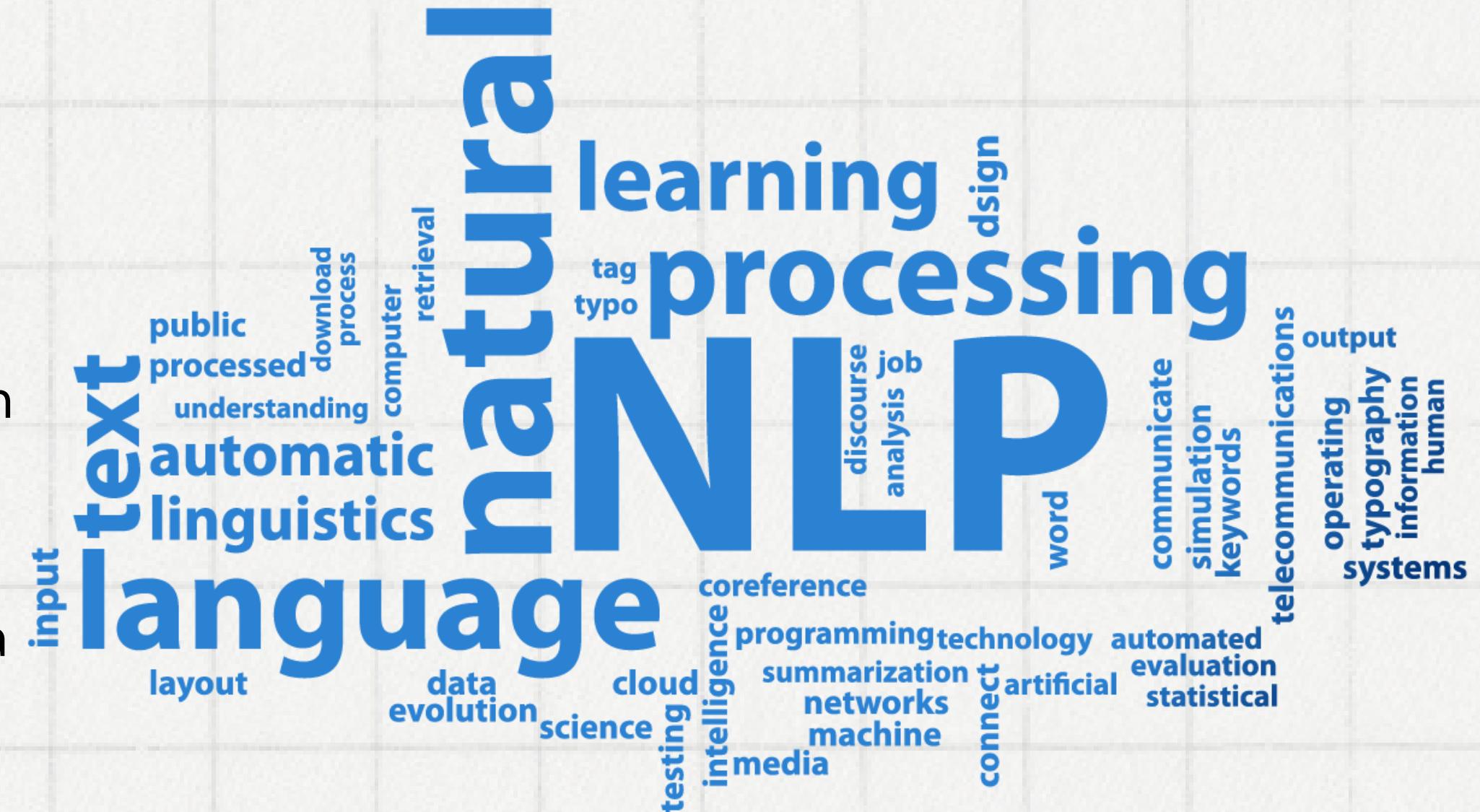
Grammar and Spell Checker

Enhancing Text Quality with NLP

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Introduction

- Effective communication is crucial in any field, and written communication forms a significant part of it.
 - Errors in spelling and grammar can hinder the clarity and professionalism of the message.
 - Through this project, I aimed to leverage NLP techniques to develop a tool that can automatically detect and correct spelling and grammar mistakes in textual data.



Project Objective

- The objective of this project is to create a Grammar and Spell Checker tool using Natural Language Processing (NLP) techniques.
- The aim is to enhance the quality and readability of text by automatically detecting and correcting grammar and spelling errors.

01.

User-Friendliness: Create an intuitive user interface that allows users to easily input text and view corrected output.

02.

Efficiency: Design the tool to be efficient and capable of processing large volumes of text in a timely manner.

03.

Accuracy: Develop algorithms that accurately identify and correct grammar and spelling mistakes in text.

NLP tools used

- **TextBlob:**

Utilized for spell checking. TextBlob offers a convenient interface for various NLP tasks, including spell correction.

- **LanguageTool:**

Employed for grammar checking. LanguageTool is an open-source grammar checking tool that provides suggestions for correcting grammar and style errors.

Implementation Overview

Spell Checking:

- Split the input text into individual words.
- Utilize TextBlob to correct the spelling of each word.
- Join the corrected words back into a single string.

Grammar Checking:

- Use LanguageTool to identify grammar and style mistakes in the input text.
- Extract error messages and count the total number of mistakes found.

Example

127.0.0.1:5000/spell

Grammar And Spell Checker

Type your text here

tooday is an fine daay

Correct

Corrected Word:
today is an fine day

Grammar Mistakes:
([This sentence does not start with an uppercase letter.', 'Use "a" instead of 'an' if the following word doesn't start with a vowel sound, e.g. 'a sentence', 'a university'.', 'Possible spelling mistake found.'], 3)

Upload File

Choose File No file chosen

Correct

USD/GBP +0.83%

Search

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Thank you