Sentiment Analysis of Google Reviews

Team Champagne Tutorial

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Outline of Tutorial

Prerequisites and Installation

Introduction of the tool

Use Case Example

Prerequisites and Installation Prerequisite Packages

- streamlit (https://streamlit.io/)
- pytorch (https://pytorch.org/)
- transformers (https://huggingface.co/docs/transformers/index)
- simpletransformers (https://simpletransformers.ai/)
- scipy
- pandas

Prerequisites and Installation

Installation

- Git clone our repository
- Go to the code folder
- Go to the code loider
- Download our trained <u>RoBERTa</u> and <u>BERT</u> model to current position, and rename them as roberta and bert.
- Start the local server

streamlit run app.py

cd CourseProject/code

git clone https://github.com/same8891/CourseProject.git

 See the auto-opened webpage or follow the terminal address

Tool Introduction User Interface

Google Review Rating Analysis

Input your text below (max 256 words)

Analyze

About

1. This is a tool for sentiment analysis and automatic rating on reviews.

2. To use the tool, please enter the review in text in the input box below, and click 'Analyze' button.

Input your text here:

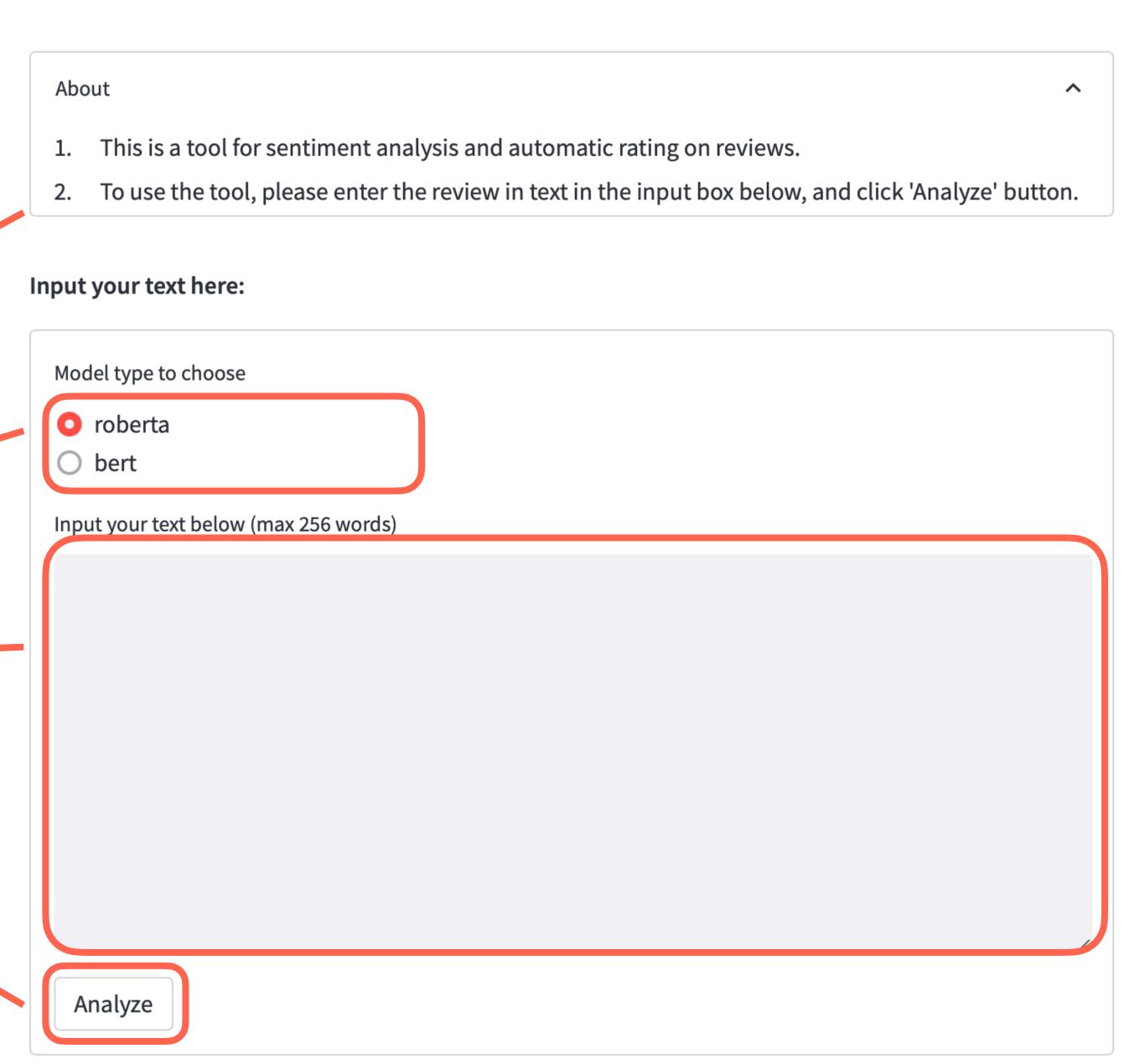
Model type to choose

o roberta
bert

Tool Introduction User Interface

- Basic description
- Model Selection
- Input box
- "Analyze" Button

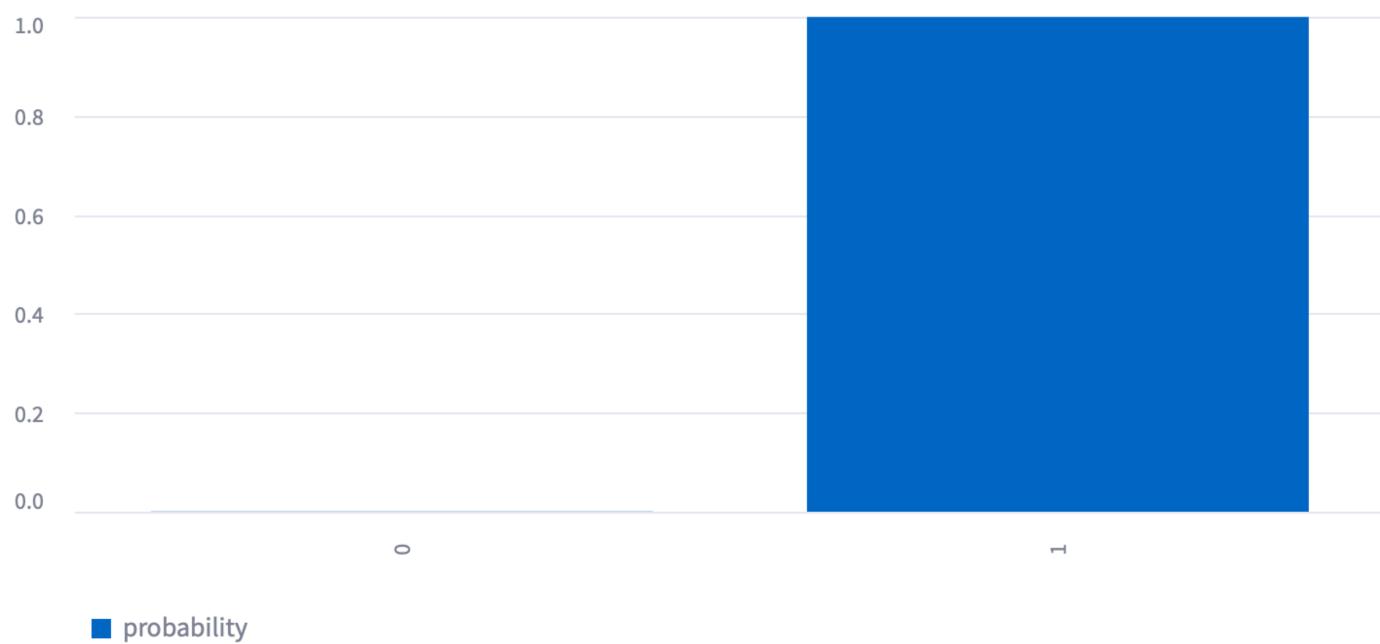
Google Review Rating Analysis

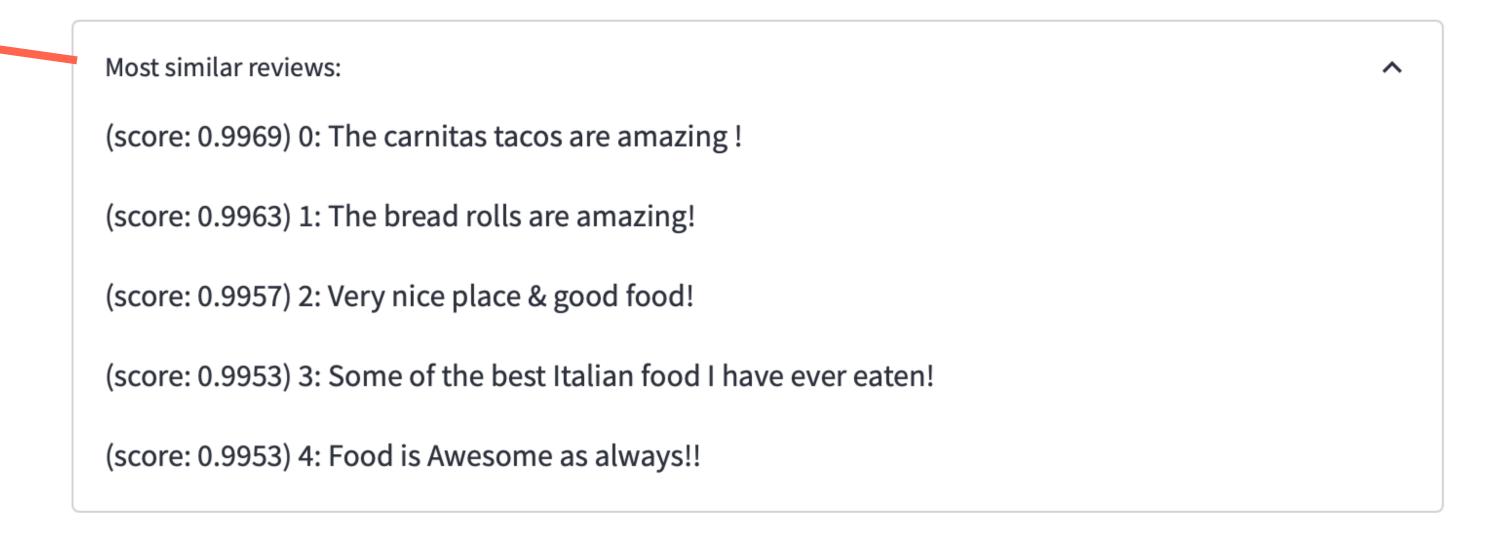


Tool Introduction Result Format

- Predicted label
- Distribution estimation
- Retrieved similar reviews

Predicted label: positive Estimated distribution:





Use Case Example

Google Review Rating Analysis

