

GalegoPro: Translation & Correction App

This application [repo](#) rewrites text from any language into normative Galician. It uses:

- **Ollama3.1** as local LLM engine for advanced linguistic processing
- `src.translator` to detect and translate the text
- `src.corrector` to correct grammatical issues in the translated text
- `src.config` to configure and style the Streamlit interface

Features

1. Language Detection

Uses `detectar_idioma` to identify the source language automatically.

2. Translation

Leverages the `obtener_traductor` function to translate any input text into Galician.

3. Correction

Applies `obtener_corrector` and `corregir_texto` to refine grammar and syntax after translation.

How to Use

Install Dependencies

```
poetry install
poetry shell
```

Run the app

```
streamlit run main.py --server.fileWatcherType none
```

Usage

1. Enter or paste the text you want to translate.
2. Click "Procesar texto" to run detection, translation, and correction.
3. Review the final output in Galician.

Features

1. Local LLM Processing

Uses `Ollama` with custom-trained Galician language models for:

- Context-aware translations
- Grammatical nuance correction

- Style adaptation to normative Galician

2. Language Detection

Uses `detectar_idioma` with fallback to LLM when confidence < 75%

3. Hybrid Correction System

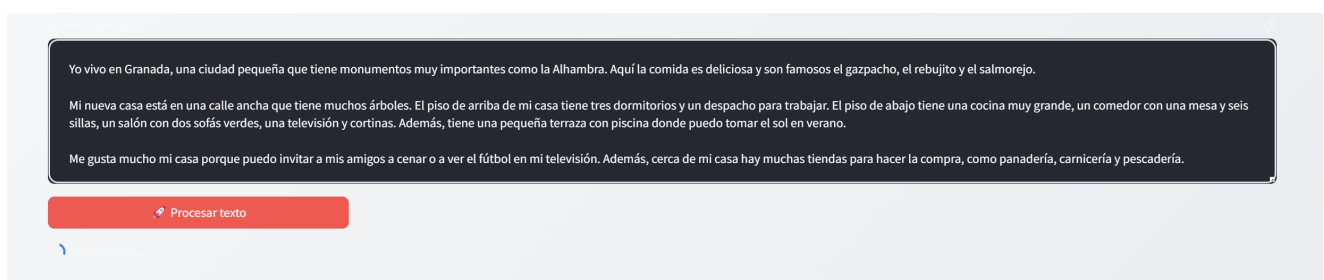
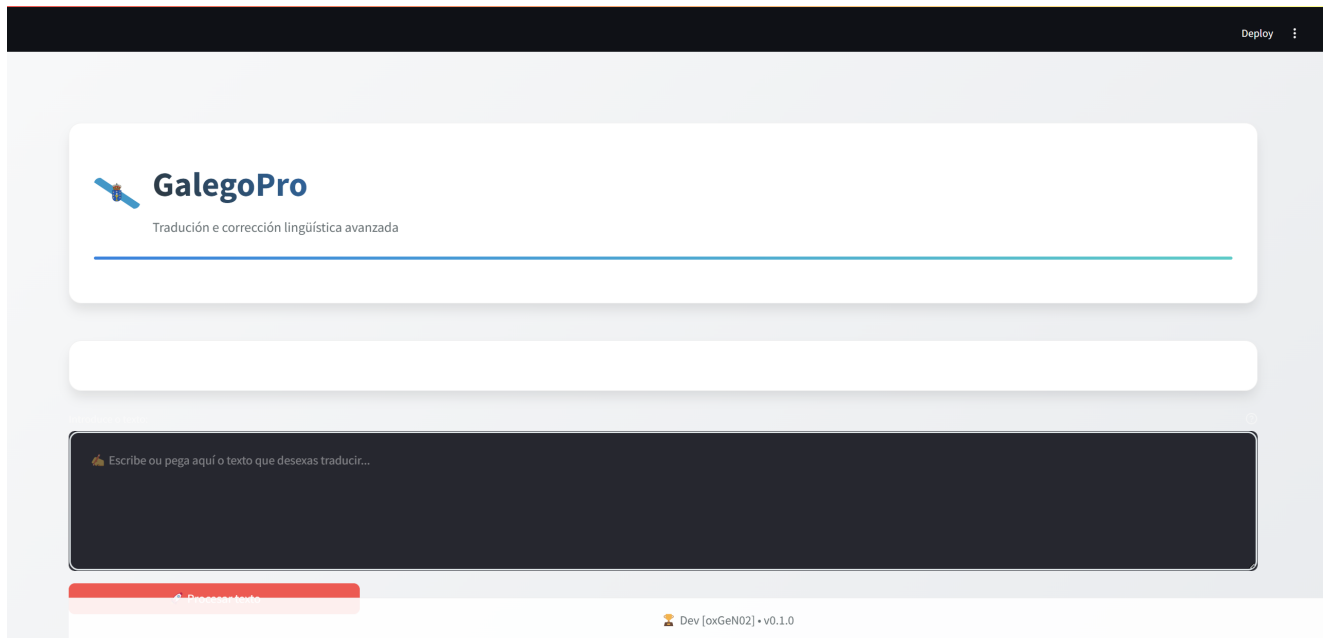
Combines:

- Rule-based checks from `language_tool_python`
- LLM-powered contextual corrections via Ollama

Architecture

```
graph TD
    A[User Input] --> B(Language Detection)
    B --> C{Translation}
    C -->|Helsinki-NLP| D[Raw Galician]
    C -->|Ollama Fallback| D[Raw Galician]
    D --> E[Hybrid Correction]
    E --> F[Rule-Based Checks]
    E --> G[LLM Refinement]
    G --> H[Final Output]
```

Visual



Traducción

Idioma orixinal: es

Eu vivo en Granada, unha cidade pequena que ten monumentos moi importantes como Alhambra. Aquí a comida é deliciosa e son famosos o gazpacho, o salmorexo e o salmorexo. A miña nova casa está nunha pequena terraza que ten moitas árbores. O piso de arriba da miña casa ten tres dormitorios e un despacho para traballar. O piso de abaixo ten unha cociña moi grande, un comedor cunha mesa e seis cadeiras, un salón con dous sofás verdes, unha televisión e cortinas. Ademais, ten unha pequena terraza con piscina onde podo tomar o sol en verán.

Novo texto

```
C:\Users\manue>ollama run llama3.1
pulling manifest
pulling 667b0c1932bc... 100% 4.9 GB
pulling 948af2743fc7... 100% 1.5 KB
pulling 0ba8f0e314b4... 100% 12 KB
pulling 56bb8bd477a5... 100% 96 B
pulling 455f34728c9b... 100% 487 B
verifying sha256 digest
writing manifest
success
>>>
Use Ctrl + d or /bye to exit.
>>>
>>> fadffafafa
It looks like you typed some random characters! Is there something else I can help with?
>>>

C:\Users\manue>ollama list
NAME      ID            SIZE    MODIFIED
llama3.1:latest 46e0c10c039e 4.9 GB  4 minutes ago

C:\Users\manue>
```

Architecture

