GiggleLab: Al-Powered Turkish Joke Generator





Purpose of the Project:

The aim of this project is to develop an artificial intelligence model that understands and generates short humorous narratives known as "fikra", which are an integral part of Turkish culture. By combining traditional humor with modern technologies, the project seeks to offer an entertaining and creative experience.

Project Steps

Preparing the Dataset

The jokes (Fikra) were compiled, cleaned, and structured.

Choosing a Model and Fine-Tuning

Chose the Trendyol LLM and fine-tuned it.

Developing the Website

The code was written, and the interface and model were integrated.

Testing and Reporting

The model outputs were evaluated and the documentation was prepared.

Generating Jokes with Artificial Intelligence

Culture and Entertainment

Artificial intelligence supports the preservation and digitization of cultural elements by being used in humorous content generation, such as the creation of fikra (short jokes).

Al in Turkish Culture

Artificial intelligence trained with figures like Nasreddin
Hoca helps keep local humor alive in digital
environments.

Education and Language

Artificial intelligence captures students' interest through humorous stories while also contributing to language development.

Traditional Humor with Artificial Intelligence

Al models trained with fikra support the preservation of cultural heritage and its transmission to future generations.

Project Development Process

Used Model

Within the scope of the project, the Turkish language model named Trendyol-LLM-7b-chat-dpo-v1.0 was used. This model is a large language model trained on Turkish data and possesses a broad understanding of the language.

Datasets Used

- fikra_dataset.json: An original dataset consisting of Nasreddin Hoca jokes.
- clean_jokes.json: A cleaned, Alcompatible supplementary humor dataset.
- All data was structured in the "prompt" and "story" format to ensure compatibility with the model.

Fine-Tuning Process

The model was fine-tuned using a specially compiled fikra dataset. This dataset included hundreds of traditional and creative jokes, presented in a "prompt" and "story" format. As a result, the model not only learned the structure of fikra but also successfully generated new ones.

Technical Infrastructure

- Python: Used for data preparation, model fine-tuning, and interface development.
- GiggleLab Application: The integration of the interface and the model was achieved through the main.py and fikra_Ilm.py files.



The jokes generated by the model were evaluated based on naturalness, humor level, and grammatical accuracy.

Reading tests were conducted with test users, and interactive presentations were prepared with laughter sound effects.

The test scenarios are documented in the test case report.pdf file.

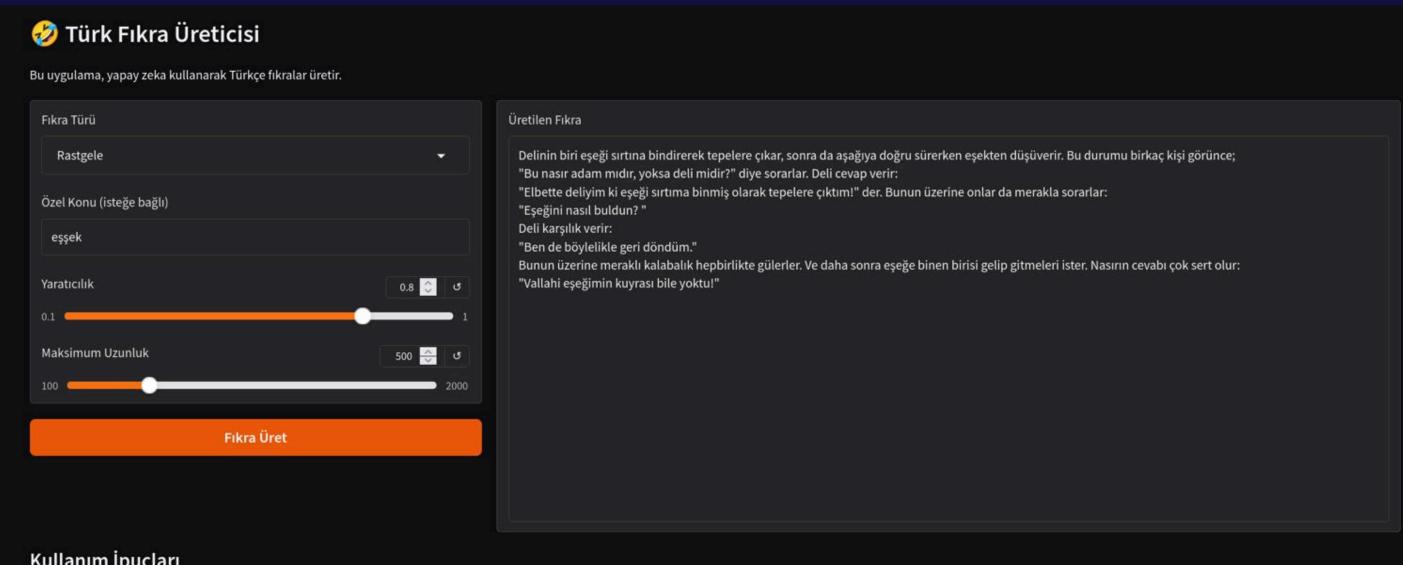
Risks and Precautions

Data quality and diversity play a significant role in humor generation.

To prevent the model from misinterpreting Turkish idioms and cultural elements, the diversity of examples was increased.

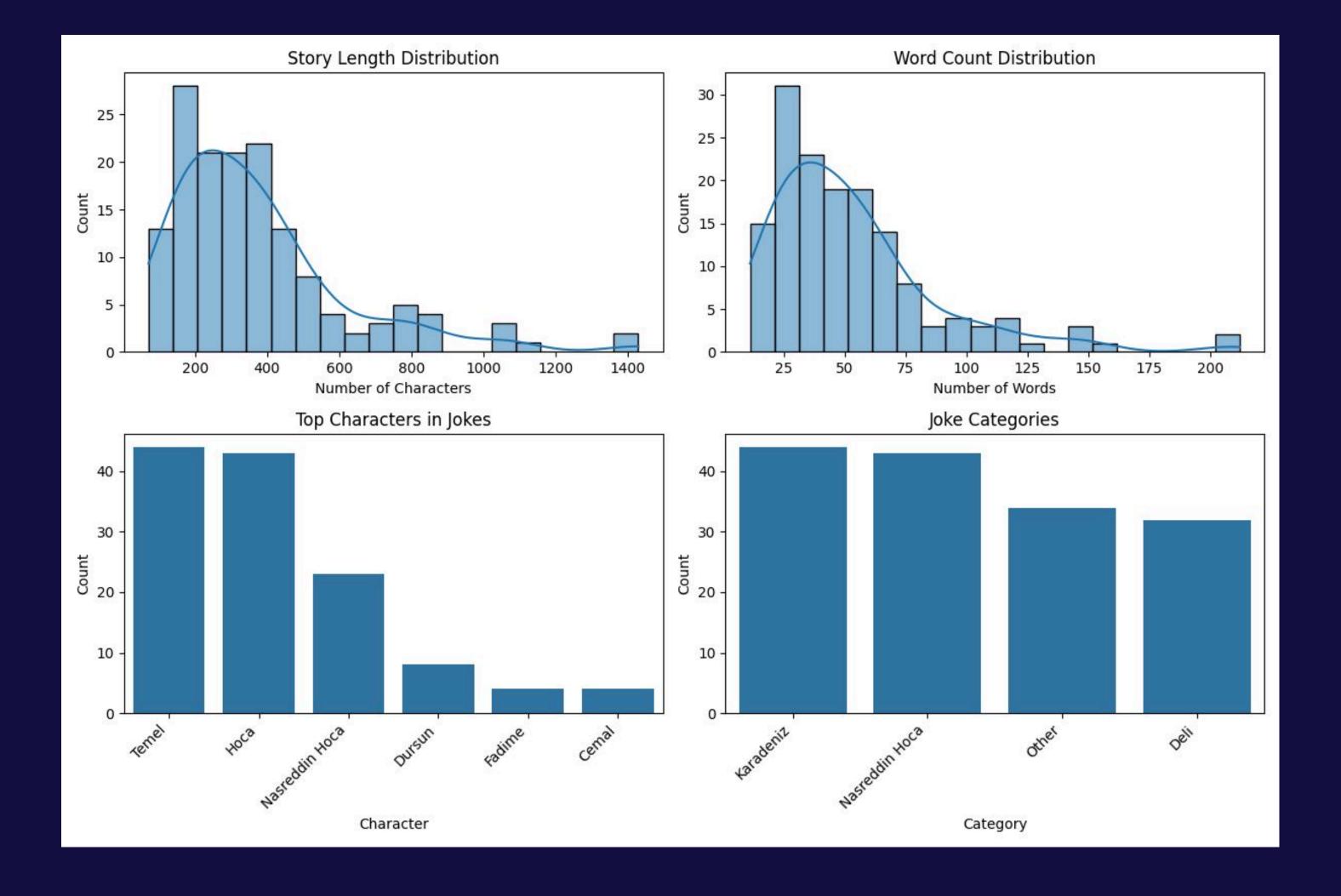
The details are presented in the risk_report.pdf document.

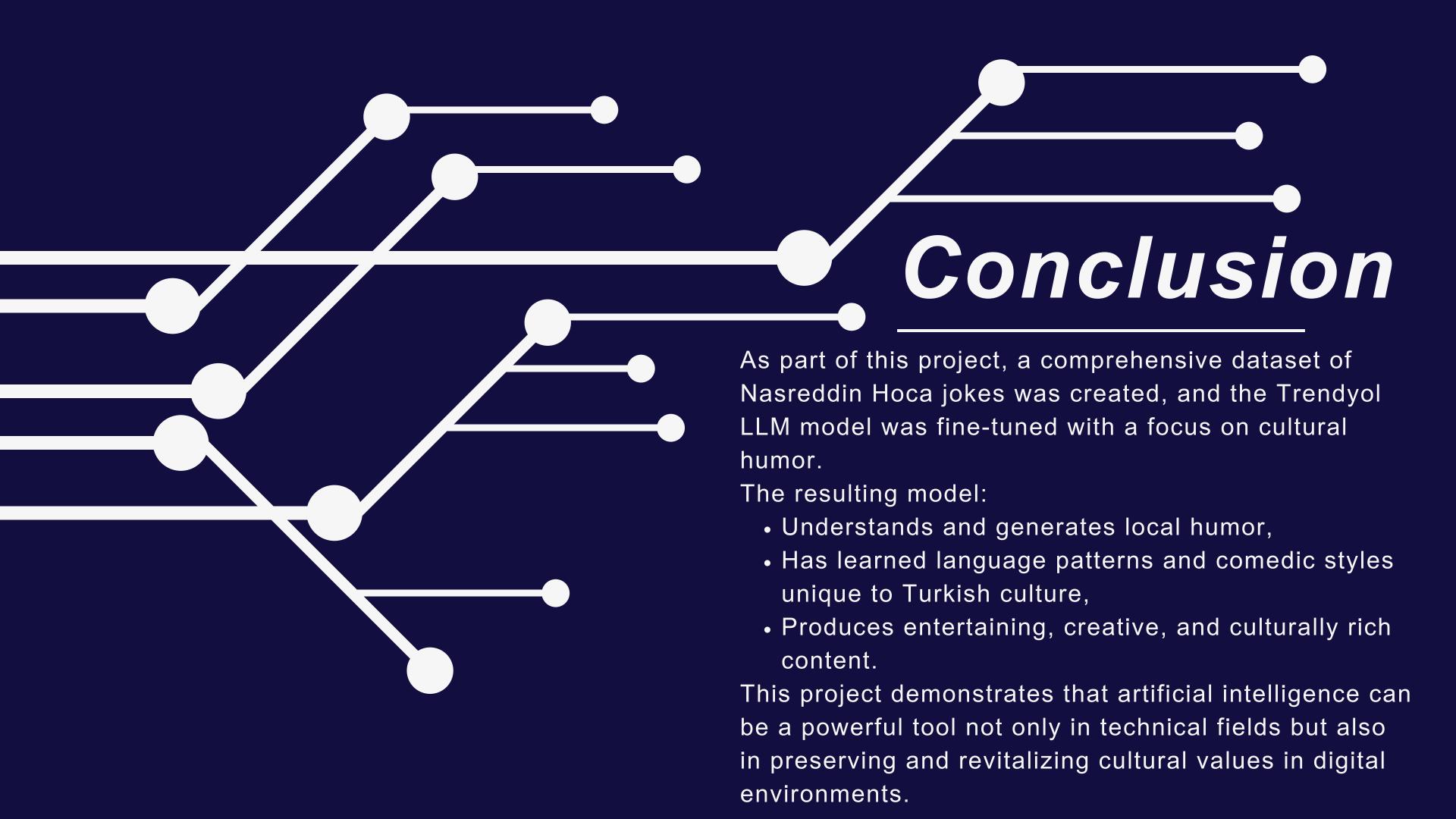
Output Sample:



Kullanım İpuçları

- Fıkra Türü: Üretmek istediğiniz fıkra türünü seçin
- Özel Konu: İstediğiniz konu veya karakterler hakkında bir fıkra üretmek için bu alanı kullanın
- Yaratıcılık: Düşük değerler daha tutarlı, yüksek değerler daha yaratıcı fıkralar üretir
- Maksimum Uzunluk: Fıkranın maksimum uzunluğunu belirler





Thank you for listening!