**Headline Generator**

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**Description**

The Headline Generator is a web application built using Flask and the Hugging Face Transformers library. It utilizes a pre-trained summarization model to generate abstractive headlines for given input text. The application also includes a ROUGE score analysis to evaluate the quality of the generated headlines.

**Installation**

1. Clone the repository:

git clone <repository\_url>

cd <repository\_directory>

1. Run the Flask application:

python app.py

1. Open your web browser and navigate to **http://localhost:5000** to access the Headline Generator.

**Usage**

1. Enter the input text in the provided textarea on the "Generate Headlines" page.
2. Click the "Generate Headline" button.
3. View the generated headline along with the input text and ROUGE scores.

**Dependencies**

* Flask
* Hugging Face Transformers
* Rouge (for ROUGE score calculation)

Install the required dependencies using the following:

pip install Flask transformers rouge

**Contributing**

If you'd like to contribute to the project, please follow these steps:

1. Fork the repository.
2. Create a new branch for your feature: **git checkout -b feature-name**
3. Commit your changes: **git commit -m 'Add new feature'**
4. Push to the branch: **git push origin feature-name**
5. Submit a pull request.