**NLP Python Coding Exercise**

This coding exercise is designed to assess a young professional's Python knowledge in Natural Language Processing (NLP). The exercise consists of creating an emotion evaluator that the candidate should be able to make using pre-trained models and Python libraries.

**Emotion evaluator**

Given a dataset of customer reviews, build a script in Python that can classify each review as either positive or negative using a pre-trained sentiment analysis model. The script should output a CSV file with the review text and the corresponding sentiment score. Benchmark at least 2 models using the IMDB-movie-reviews dataset which you can find in the data folder.

**Expectations**

The candidate is expected to:

1. The development environment should be reproducible.
2. Write clean, readable, and maintainable code that follows best practices.
3. Be able to explain their code and their approach to solving the problem.
4. Benchmark reports on models used.
5. Use version control to manage their code and explain their workflow.
6. Demo the code (script, endpoint, streamlit, gradio, ...)
7. Optionally, write a predict endpoint for an API using a framework of their choice, such as Flask or FastAPI, and explain their choice of framework.

**Deliverables**

In the end, there should be:

1. A GitHub repository
2. Clean, well-documented code
3. A readme file
4. Presentation that explains workflow
5. A demo

This task was designed to be solved within 2 hours using pre-trained models and Python libraries. Additionally, they should be able to write a basic API endpoint that takes in a text input and returns the predicted sentiment, named entities, or category label using the script they developed.

Good luck with the exercise!