Portugal Hub Data Science

Interview Task

Challenge: Large Language Models (LLMs)

The Advanced Analytics & AI Team has the mission to leverage the latest AI technology to Continental worldwide.

Large Language Models have proven its potential in the last months. We've given a student the task to explore and experiment with existing open-source models. After a few weeks, he delivered a python script (*llm_conti.py*).

As a senior ML engineer, you need to review his code, give feedback where he can improve and guide him towards making this solution scalable and available to the entire organization. Please prepare a template of a code repository which can be used as a guide for the student to build a robust solution following the best practices in machine learning and software engineering.

Guidelines:

- We expect you to prepare the code review and repository template as deliverables.

- In our meeting we would like to understand which kind of solution/architecture you would propose to a hypothetical student and how you would guide and mentor her/him. Brief code snippets and suggested technologies will be appreciated.

- The code provided might require 16GB RAM memory to actually run. If you don't have access to the required resources, you are free to replace the model's response by a dummy one. The goal is to understand how you would structure the solution.

- Use cases are subjective so there are multiple solutions. We would like to understand your process of thinking and ability to guide others.