RegenX

Low code / AI Engineering assignment

Timing: you have 24 hours to complete the assignment

The brief:
. Use streamlit (https://streamlit.io/) to solve the following use case

Use case:
- The user uploads a picture of a bag of fertilizer (here are pictures you can use for testing)
- Using an AI API of your choice, you will return the N P K numbers on the bag (for example 30-10-10 means the bag is 30% N, 10% P and 10% K)
- Using an AI API of your choice, you will get the code to speak out the result in Vietnamese (ie text-to-speech)
- After listening to the speech response, the user speaks "Tôi mua năm bao" in Vietnamese. Using an AI API of your choice, you will return "five" as a result (i.e. your solution needs to understand the user's speech in Vietnamese and get the right number of bags. For example if as a user you say "em mua mười bao" the response should be 10 and not 5 anymore)

What we will assess
- How far you are able to build the demo within 24 hours (i.e., partial or full demo)
- How functional it is (i.e does it actually work? Does it have proper logic or is it hard-coded? etc.)
- How you overcome simple technical challenges in vision and speech

What we won't assess
- Aesthetics and visual design are not important for this assignment. We recommend focusing on building functional
- We don't expect production-ready code, but just something that works on your local machine (no need to deploy it)

Are you allowed to use AI to generate code?
- Yes - as long as you can explain / answer questions on the review day

Output and timing
- Ship your demo code on your github and email us the link (talent@regenx.ag)
- You have 24 hours to send us the above

Will we use your code for commercial purposes?
- No, this only serves the purpose of the assignment. After the review day, you can delete your github repo

What happens after you've submitted the assignment?
- You will have a debrief session with the technical interviewer
- You will showcase your demo, share screen to look at the code and answer questions

Good luck and look forward to receiving your deliverable!