Assignment - Ai/Ml

About Listed- https://listed.fans/

We are a lab building products for the creator economy. Why so, because we are on a mission to empower the individual to realize/unleash their full potential. Following are some of our flagship products:

OpeninApp

Almost all your favorite creators on Instagram share links to their latest YouTube videos or YouTube channels in their bio or stories. But whenever you tap on those links, you get redirected to the YouTube website instead of the YouTube app. And here you can't watch the video in full screen nor can you like it, comment on it or subscribe to the channel.

Ever wondered why it is so? That's because Instagram has something called a Built—IN-Browser that opens up instead of opening the app you wanted to open. Which is not cool at all….And this is not just so for IG but for all your favorite social media apps eg. YouTube, Linkedin, Twitter, Snapchat, Telegram, Quora etc.
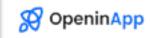
So we fixed this problem of sub-optimal user experiences by building a tool that ensures all social media links open in the apps they should. It's called OpeninApp. And it is already loved by over 20,000 influencers & brands including the likes of Munawar Faruqui, Raj Shamani, Riva Arora, Aishwarya (Ranjnikant-ji's daughter), Trakin Tech, Mamaearth etc. And has been used by 55Mn+ users.

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We Listians find it very painful that unlike tech entrepreneurs there's little to no capital available for our darling social media creators or influencers, the wonderful people who entertain us, educate us and so so much more. And this is not just the case for social media creators but individual performers of any form are they are, cricketers, singers, dancers, actors etc… So, Listed helps rising creators get funded, just like startups by being there done-that's like mega-influencers, agency owners and brand CXOs to launch and accelerate their own creator-ships. In return, these rising stars pledge to share a portion of their future incomes with their investors for a certain fixed period of time.

So, if you believe the gifted individuals of today will overshadow the companies of yesterday, and in doing so, have the right to capital & guidance and you are passionate about social media and wants to improve User Experiences for a Billion people, then welcome home.

TASK

Create a voice cloning model that can generate a synthetic voice that sounds like a specific person. Here extract a voice of a speaker from online who is for example giving a speech/ TED talk in (English/Hindi/Telugu) for at least 1 minute. Clone this speaker's voice to a different language (English/Hindi/Telugu) with the same pitch, and audio tone, and it should be able to reproduce the unique vocal characteristics of the target speaker.

Example: (Let's say you have extracted audio of Elon Musk giving a speech in English, your task is to change the language of Elon Musk's same speech to another language to Hindi/Telugu. It should be as if Elon Musk himself is talking in Hindi/Telugu).

There is no Pre-Trained model provided for the second assignment as we want you to be the one who researches it and brings out a creative way of working on it

What are we looking for?

- The model must be able to generate speech that is indistinguishable from the target speaker's natural voice.
- The model must be able to copy the accent of the original audio.
- The model must be able to generate speech at a variety of speeds and pitches.
- The model must be able to generate speech that is clear and understandable.

Your assignment will be evaluated on the following criteria -

- Accuracy: How closely does the generated speech resemble the target speaker's natural voice?
- Fluency: How natural and smooth is the generated speech?
- Understandability: How clear and easy to understand is the generated speech?
- Code quality, the less the code the better.
- Time taken to submit, the less the better.
- Response times, the faster the better.

Additional Requirements:

- The model must be implemented in Python.
- The model must be accompanied by a README file that explains how to run the model and how to evaluateits performance.

FAQs:

1. How can I submit the assignment?

Ans - Submit the Video on the same mail from which you have received

2. Can I use a pre-trained model, or do I need to train a model myself?

Ans - Using pre-trained models is usually more practical because training models can take a long time. We kindly request that you prioritize using the provided link to access the pre-trained model.