Hewlett Packard Enterprise

Hackathon Challenge 2023 proposal 1

Resume:

Level: Intermediate/ Advanced. We hold the world in our hands with mobile devices. However, the world speaks many languages, and we need an easy way to understand and comprehend all the available content and info out there. Copying and pasting into translate tools helps sometimes but is far from perfect. Your task is to create an application which captures the screen on your phone, recognizes all text on it and translates it into a chosen language in an overlay. You may use any available AI driven tools for image recognition and translation.

Key points: Mobile development, API, Text Recognition, Image Recognition

Resources/Tools: https://rapidapi.com/collection/ai-based-apis

Models:https://huggingface.co/models?_sm_vck=QN2FF3Pp037LrqFWNRVsQ34LDNRB6sL7BS6N6FPRCZZF32F2JJnB

Knowledge Lab: https://www.kdnuggets.com/2023/06/ai-large-language-visual-models.html

https://modelpredict.com/language-identification-survey

https://startup.info/6-best-image-recognition-apis/

Public APIs that offer translate/detect:

https://translateme.network/api/

https://support.deepl.com/hc/en-us/articles/360021200939-DeepL-API-Free

https://www.deepl.com/docs-api/

https://www.microsoft.com/en-us/translator/business/trial/

https://translatepress.com/docs/automatic-translation/generate-google-api-key/

https://rapidapi.com/search/translation & https://rapidapi.com/search/ocr

https://azure.microsoft.com/en-us/products/ai-services/ai-vision

The participants are free to use tools that will assist them in creating the desired outcome, such as libraries, prepared models, bots, API ,etc.

This challenge allows you to draw inspiration with already existing developments/apps and make them your own by adding personal touches and creativity that will differentiate you and lead you to winning the hackathon! Good luck and don't be afraid to express your knowledge & imagination!