import streamlit as st

import io

import requests

from PIL import Image

from PIL import ImageDraw

from PIL import ImageFont

textcolor = 'white'

textsize = 50

st.title('顔認識アプリ')

subscripton\_key = 'f5c1da89cdf5450eaeddabbec06866c8'

assert SUBSCRIPTION\_KEY

face\_api\_url = 'https://macbook-tanaka220608.cognitiveservices.azure.com/face/v1.0/detect'

uploaded\_file = st.file\_uploader('Choose an image...',type='jpg')

if uploaded\_file is not None:

img = Image.open(uploaded\_file)

with io.BytesIO() as output:

img.save(output,format='JPEG')

binary\_img = output.getvalue()

headers = {

'Content-Type':'application/octet-stream',

'Ocp-Apim-Subscription-Key' : subscripton\_key

}

params = {

'retrunFaceId':'true',

'returnFaceAttributes': 'blur,exposure,noise,age,gender,facialhair,glasses,hair,makeup,accessories,occlusion,headpose,emotion,smile'

}

res = requests.post(face\_api\_url,params=params,headers=headers,data = binary\_img)

results = res.json()

for result in results:

rect = result['faceRectangle']

draw = ImageDraw.Draw(img)

draw.rectangle([(rect['left'],rect['top']),(rect['left']+rect['width'],rect['top']+rect['height'])],fill=None,outline='red',width=4)

age = str(result['faceAttributes']['age'])

gender = result['faceAttributes']['gender']

text = '年齢: '+age+'歳、性別: '+gender

txpos = (rect['left'], rect['top']-textsize-linewidth//2)

draw.text(txpos, text, font=font, fill=textcolor)

st.image(img,caption='Uploaded Image.',use\_column\_width = True)