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import os
import random
import string
from pathlib import Path
import numpy as np
from tensorflow.keras.models import load_model
from PIL import Image, ImageOps


def random_name_generator(n):
	return ''.join(random.choices(string.ascii_uppercase + string.digits, k=n))


def recognize(image):
	model=load_model(Path("./model/model.h5"))

	img = Image.open(image).convert("L")
	img_name = random_name_generator(10) + '.jpg'

	if not os.path.exists(f"./static/data/"):
		os.mkdir(os.path.join('./static/', 'data'))
	img.save(Path(f"./static/data/{img_name}"))

	img = ImageOps.grayscale(img)
	img = ImageOps.invert(img)
	img = img.resize((28, 28))
	img2arr = np.array(img)
	img2arr = img2arr / 255.0
	img2arr = img2arr.reshape(1, 28, 28, 1)

	results  = model.predict(img2arr)
	best = np.argmax(results,axis = 1)[0]

	pred = list(map(lambda x: round(x*100, 2), results[0]))
```

```
values = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
others = list(zip(values, pred))

best = others.pop(best)

return best, others, img_name
```