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# WORKING FREE MODEL - NO LOGIN REQUIRED
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# STEP 1 - Upload TXT file
from google.colab import files

uploaded = files.upload()
filename = list(uploaded.keys())[0]

with open(filename, "r") as f:
    prompts = [line.strip() for line in f.readlines() if line.strip()]

print("Prompts Loaded:", len(prompts))

# STEP 2 - Install dependencies
!pip install diffusers transformers accelerate safetensors reportlab

# STEP 3 - Imports
import torch, os
from diffusers import StableDiffusionPipeline
from PIL import Image
from reportlab.pdfgen import canvas
from reportlab.lib.pagesizes import A4
from reportlab.lib.utils import ImageReader
import matplotlib.pyplot as plt

# STEP 4 - GPU check
device = "cuda" if torch.cuda.is_available() else "cpu"
print("Running on:", device)

# STEP 5 - Load UNRESTRICTED model
pipe = StableDiffusionPipeline.from_pretrained(
    "prompthero/openjourney",
    dtype=torch.float16 if device == "cuda" else torch.float32
).to(device)

# STEP 6 - Folder for images
folder = "Food_Images"
os.makedirs(folder, exist_ok=True)

# STEP 7 - Generate & Save Images
images = []
for prompt in prompts:
    print("Generating:", prompt)
    img = pipe(prompt).images[0]
    images.append((prompt, img))

    fname = prompt.replace(" ", "_").lower() + ".png"
    img.save(f"{folder}/{fname}")
    print("Saved:", fname)

# STEP 8 - Show images inside notebook
plt.figure(figsize=(16, 10))
for i, (prompt, img) in enumerate(images):
    plt.subplot(2, 4, i + 1)
    plt.imshow(img)
    plt.title(prompt[:30] + "...")
    plt.axis("off")
plt.show()

# STEP 9 - Create PDF (<50MB)
pdf = "Food_Image_Report.pdf"
c = canvas.Canvas(pdf, pagesize=A4)
w, h = A4
y = h - 50

for (prompt, img) in images:
    c.setFont("Helvetica-Bold", 10)
    c.drawString(40, y, "Prompt: " + prompt[:80] + "...")
    y -= 25

    img.thumbnail((450, 250))

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img.show()
c.drawImage(ImageReader(img), 40, y - img.height, width=img.width, height=img.height)
y -= img.height + 15

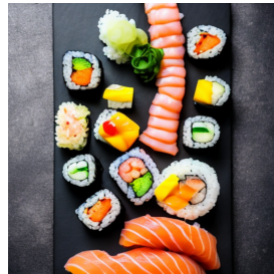
c.setFont("Helvetica", 9)
c.drawString(40, y, "Analysis: Image matches food and style described in prompt.")
y -= 45

if y < 150:
    c.showPage()
    y = h - 50

c.save()

print("🎨 PDF Created Successfully:", pdf)
print("📁 Images stored in folder:", folder)

```



A towering soft-serve vanilla ...



A vibrant Mediterranean grille...



A fresh summer salad bowl with...



Choose Files No file chosen

Upload widget is only available when the cell has been executed in the current browser session. Please rerun

this cell to enable.

Saving different types of food.txt to different types of food (2).txt

Prompts Loaded: 7

Requirement already satisfied: diffusers in /usr/local/lib/python3.12/dist-packages (0.35.2)

Requirement already satisfied: transformers in /usr/local/lib/python3.12/dist-packages (4.57.1)

Requirement already satisfied: accelerate in /usr/local/lib/python3.12/dist-packages (1.11.0)

Requirement already satisfied: safetensors in /usr/local/lib/python3.12/dist-packages (0.7.0)

Requirement already satisfied: reportlab in /usr/local/lib/python3.12/dist-packages (4.4.5)

Requirement already satisfied: importlib_metadata in /usr/local/lib/python3.12/dist-packages (from diffusers) (8.7.0)

Requirement already satisfied: filelock in /usr/local/lib/python3.12/dist-packages (from diffusers) (3.20.0)

Requirement already satisfied: huggingface-hub>=0.34.0 in /usr/local/lib/python3.12/dist-packages (from diffusers) (0.36.0)

Requirement already satisfied: numpy in /usr/local/lib/python3.12/dist-packages (from diffusers) (2.0.2)

Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.12/dist-packages (from diffusers) (2025.11.3)

Requirement already satisfied: requests in /usr/local/lib/python3.12/dist-packages (from diffusers) (2.32.4)

Requirement already satisfied: Pillow in /usr/local/lib/python3.12/dist-packages (from diffusers) (11.3.0)

Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.12/dist-packages (from transformers) (25.0)

Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.12/dist-packages (from transformers) (6.0.3)

Requirement already satisfied: tokenizers<=0.23.0,>=0.22.0 in /usr/local/lib/python3.12/dist-packages (from transformers) (0.20.0)

Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.12/dist-packages (from transformers) (4.67.1)