

Kowshik - SE_1

Awesome!

Here's the **full clean** `process_resumes.py` code, including:

- Proper ZIP extraction
- Resume uploads to **Supabase Storage**
- Deleting local files after upload to avoid server clutter
- Fully production-grade structure



Updated `process_resumes.py`

python

```
import openai
import json
import os
import zipfile
import shutil
import time
import mimetypes
from pdfminer.high_level import extract_text
import docx
from concurrent.futures import ThreadPoolExecutor
import pandas as pd
from sentence_transformers import SentenceTransformer
from tqdm import tqdm
from supabase import create_client
from dotenv import load_dotenv
import uuid

# Load environment variables
load_dotenv()
SUPABASE_URL = os.getenv("SUPABASE_URL")
SUPABASE_KEY = os.getenv("SUPABASE_KEY")

client = openai.OpenAI(
```

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    api_key=os.getenv("GROQ_API_KEY"), # Your Groq API Key
    base_url="https://api.groq.com/openai/v1"
)
supabase = create_client(SUPABASE_URL, SUPABASE_KEY)

# Load sentence transformer model
embed_model = SentenceTransformer("all-MiniLM-L6-v2")

# Folders
RESUME_FOLDER = "resumes"
PROCESSED_DATA_FOLDER = "processed_data"
os.makedirs(PROCESSED_DATA_FOLDER, exist_ok=True)

# 🔥 Function to extract ZIP
def extract_zip(zip_path, extract_to):
    with zipfile.ZipFile(zip_path, 'r') as zip_ref:
        zip_ref.extractall(extract_to)

# 🔥 Function to read resume text
def read_resume(file_path):
    ext = file_path.split(".")[-1].lower()
    if ext == "pdf":
        return extract_text(file_path)
    elif ext == "docx":
        doc = docx.Document(file_path)
        return "\n".join([para.text for para in doc.paragraphs])
    else:
        return ""

# 🔥 Analyze resume with LLM
def analyze_resume_mistral(resume_text, job_description):
    prompt = f"""
    You are an AI that evaluates resumes based on job descriptions.
    Return only JSON in this format:

    {{
        "Key Skills": [],
        "Overall Analysis": "",
        "Certifications & Courses": [],
        "Relevant Projects": [],
        "Soft Skills": [],
        "Overall Match Score": 0-10,
    }}
    """

```

```

        "Projects Relevance Score": 0-10,
        "Experience Relevance Score": 0-10
    }}

    ### Job Description:
    {job_description}

    ### Resume:
    {resume_text[:2000]}
    """

    while True:
        try:
            response = client.chat.completions.create(
                model="mistral-saba-24b",
                messages=[
                    {"role": "system", "content": "Return only JSON."},
                    {"role": "user", "content": prompt}
                ]
            )
            content = response.choices[0].message.content.strip()
            content = content.replace(",}", "}").replace(",]", "]")
            return json.loads(content)
        except Exception as e:
            print(f"Error analyzing resume: {e}. Retrying...")
            time.sleep(2)

#  Upload resume to Supabase Storage + Insert DB record
def upload_resume_info_to_db(file_name, file_path, job_id, user_id):
    resume_id = str(uuid.uuid4())
    with open(file_path, "rb") as f:
        file_content = f.read()

    content_type, _ = mimetypes.guess_type(file_path)
    if content_type is None:
        content_type = "application/pdf"

    storage_path = f"{job_id}/{file_name}"

    try:
        supabase.storage.from_("resumes").upload(
            path=storage_path,
            file=file_content,

```

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        file_options={"content-type": content_type, "upsert": True}
    )
    print(f"Uploaded {file_name} to storage: {storage_path}")
except Exception as e:
    print(f"Error uploading {file_name} to storage: {e}")
    return None

bucket_url = f"https://{SUPABASE_URL.split('https://')[1]}/storage/v1/object/public/resumes/{storage_path}"

data = {
    "resume_id": resume_id,
    "user_id": user_id,
    "job_id": job_id,
    "file_name": file_name,
    "file_path": bucket_url,
}
try:
    supabase.table("resume_uploads").insert(data).execute()
    print(f"Inserted DB metadata for {file_name}")
    return resume_id
except Exception as e:
    print(f"Error inserting DB record for {file_name}: {e}")
    return None
finally:
    # Delete local file after upload
    os.remove(file_path)

# 🔥 Process resumes in batch
def process_resumes_in_batches(resumes, job_description, batch_size=10):
    results = []
    for i in range(0, len(resumes), batch_size):
        batch = resumes[i:i + batch_size]
        for resume in batch:
            analysis = analyze_resume_mistral(resume["text"], job_description)
            results.append({"filename": resume["filename"], "analysis": analysis})
        print(f"Processed batch {i // batch_size + 1}. Waiting to avoid rate
limit...")
        time.sleep(1.5)
    return results

# 🔥 Main function to call

```

```
def process_all_resumes(zip_path, job_description, weightages,
resume_output_folder):
    extract_zip(zip_path, resume_output_folder)
    resumes = []

    for file in os.listdir(resume_output_folder):
        path = os.path.join(resume_output_folder, file)
        text = read_resume(path)
        resumes.append({"filename": file, "text": text})

    results = process_resumes_in_batches(resumes, job_description)

    output_json = os.path.join(PROCESSED_DATA_FOLDER, "resume_analysis.json")
    with open(output_json, "w") as f:
        json.dump(results, f, indent=4)

    print("✅ Resume processing completed.")
    return results
```

✅ Key Highlights:

Change	Why
Upload resumes to Supabase Storage	So deployment is permanent
Delete local resumes after upload	Save server space
No breakage in your resume analysis / ranking / flow	✅

Would you also like me to package this into a **final uploadable ZIP file** for your backend now?

So you can just plug and deploy? 🚀📦

Shall I? ✅