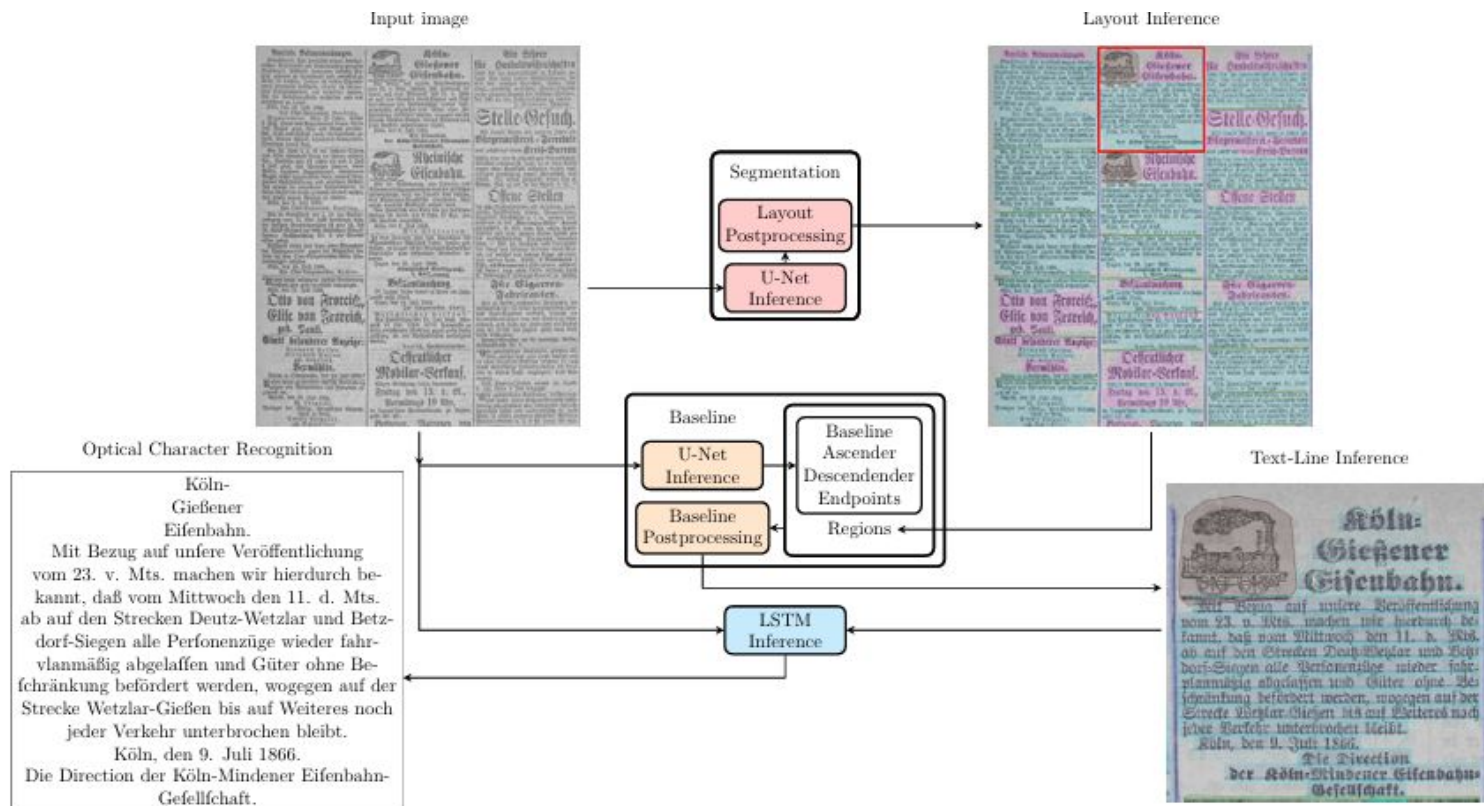


OCR

OCR until yesterday



EXAMPLE: Musical "The New Records"

see p. 3
8-5

The New Records

A BULLETIN FOR THOSE INTERESTED IN RECORDED MUSIC

Issued Monthly by
H. ROYER SMITH COMPANY
"The World's Record Shop"

10TH & WALNUT STREETS - - - PHILADELPHIA 7, PA., U. S. A.

VOL. 18, NO. 1 MARCH, 1950 By mail to any address \$10 per year

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Schumann: *Carnaval*, Op. 9. Ella Goldstein (piano). 1-12" disc (CH-CHC-32). \$4.85.

Villa-Lobos: *Quartet No. 6 in E* (Quarteto Brasileiro No. 2). Suyvesant String Quartet. 1-12" disc (CH-CHC-19). \$4.85. (TNR Oct. '47).

Block: *Quartet No. 2*. Suyvesant String Quartet. 1-12" disc (CH-CHC-20). \$4.85. (TNR Feb. '48).

Mozart: *Symphony No. 20 in D. K. 133*. Vox Chamber Orchestra—Fendler. 1-10" disc (CH-CHC-21). \$3.85. (TNR Apr. '47).

Smetana: *The Moldau*. One side, and Dvorák: *Husik's Overture*, Op. 67. Boston "Pops" Orchestra—Fiedler. 1-10" disc (V-LM-1). \$3.85. (TNR July '48).

Puccini: Highlights from *Madama Butterfly*. Albanese, Browning, Melton with RCA Victor Orchestra—Weissmann. 1-10" disc (V-LM-2). \$4.45. (TNR Dec. '46).

Bruch: *Scottish Fantasy*, Op. 46. Heifetz (violin) with RCA Victor Orchestra—Steinberg. 1-10" disc (V-LM-4). \$4.45. (TNR Feb. '48).

Mendelssohn: *Concerto in E minor*, Op. 64. Elman (violin) with Chicago Symphony Orchestra—De-laun. 1-10" disc (V-LM-5). \$4.45. (TNR Apr. '48).

Wagner: *Siegfried—Act III, Scene 3* (complete). Farrell, Svanholm with Rochester Philharmonic Orchestra—Leinsdorf. 1-12" disc (V-LM-1000). \$5.45. (TNR Dec. '49).

Offenbach: *Gaîté Parisienne*. Boston "Pops" Orchestra—Fiedler. 1-12" disc (V-LM-1001). \$4.85. (TNR Dec. '47).

Rimsky-Korsakov: *Scheherazade*. San Francisco Symphony Orchestra—Monteux. 1-12" disc (V-LM-1002). \$4.85. (TNR Nov. '46).

Tchaikovsky: *The Swan Lake*, Op. 20. St. Louis Symphony Orchestra—Goldschmann. 1-12" disc (V-LM-1003). \$4.85. (TNR Feb. '46).

Grofé: *Grand Canyon Suite*. NBC Symphony Orchestra—Tocantini. 1-12" disc (V-LM-1004). \$5.45. (TNR Apr. '46).

Rachmaninoff: *Concerto No. 2 in C minor*, Op. 18. Rubinstein (piano) with NBC Symphony Orchestra—Goldschmann. 1-12" disc (V-LM-1005). \$5.45. (TNR Oct. '46).

Khachaturian: *Concerto for Piano and Orchestra*. Kapell (piano) with Boston Symphony Orchestra—Koussevitzky. 1-12" disc (V-LM-1006). \$5.45. (TNR Feb. '47).

Bliet: *Carmen* (excerpts). Swarthout, Albanese, Merrill, Vinay and RCA Victor Chorus and Orchestra—Leinsdorf. 1-12" disc (V-LM-1007). \$5.45. (TNR Dec. '46).

Tchaikovsky: *The Sleeping Beauty Ballet* (excerpts). Leopold Stokowski and his Symphony Orchestra. 1-12" disc (V-LM-1010). \$5.45. (TNR May '48).

Lalo: *Symphonie Espagnole*, Op. 21. Menuhin (violin) with Colonne Orchestra—Fournet. 1-12" disc (V-LM-1011). \$5.45. (TNR June '48).

Ravel: *Bolero*. One side, and Ravel: *Ma Mère l'Oye*. Boston Symphony Orchestra—Koussevitzky. 1-12" disc (V-LM-1012). \$5.45. (TNR Aug. '48 & Apr. '49).

Dvorák: *Symphony No. 1 in E minor*, Op. 9 ("from the New World"). Leopold Stokowski and his Symphony Orchestra. 1-12" disc (V-LM-1013). \$4.85. (TNR Jan. '49).

Moussorgsky: *Pictures at an Exhibition*. Horowitz (piano). 1-12" disc (V-LM-1014). \$5.45. (TNR Nov. '48).

Beethoven: *Sonata No. 1 in D*, Op. 12, No. 1. One side, and Beethoven: *Sonata No. 2 in A*, Op. 12, No. 2. Heifetz (violin) and Bay (piano). 1-12" disc (V-LM-1015). \$5.45. (TNR Nov. '48).

Prokofiev: *Sonata No. 7*, Op. 83. One side, and Kabalevsky: *Sonata No. 3*, Op. 46. Horowitz (piano). 1-12" disc (V-LM-1016). \$5.45. (TNR Apr. '46 & Mar. '49).

Bach: *Das Wohltemperierte Clavier* (Preludes and Fugues Nos. 1 to 8). Wanda Landowska (harpsichord). 1-12" disc (V-LM-1017). \$5.45. (TNR Feb. '50).

Grieg: *Concerto in A minor*, Op. 16. Rubinstein (piano) with RCA Victor Orchestra—Dorati. One side, and Liszt: *Concerto No. 1 in E-flat*. Rubinstein (piano) with Dallas Symphony Orchestra—Dorati. 1-12" disc (V-LM-1018). \$5.45. (TNR Jan. '50 Oct. '47).

Tchaikovsky: *Romeo and Juliet*. One side, and Berlioz: *Romeo and Juliet*. NBC Symphony Orchestra—Tocantini. 1-12" disc (V-LM-1019). \$5.45. (TNR Feb. '48 & Dec. '47).

Chopin: *Etudes*, Op. 10 and Chopin: *Etudes*, Op. 25. Three sides, and Schumann: *Etudes Symphoniques*, Op. 13. Brailowski (piano). 2-12" discs (V-LM-6000). \$10.90. (TNR Jan. '48 & Jan. '49).

Beethoven: *Symphony No. 9 in D minor*, Op. 125. ("Choral"). Three sides, and Beethoven: *Egmont Overture*, Op. 84. Soloists, Berkshire Festival Chorus, and Boston Symphony Orchestra—Koussevitzky. 2-12" discs (V-LM-6001). \$10.90. (TNR Mar. '48 & Jan. '49).

Bach: *Mass in B minor*. Soloists, RCA Victor Chorus and Orchestra—Shaw. 3-12" discs (V-LM-6100). \$16.35. (TNR Nov. '47).

Schumann: *Quartet No. 3 in A*, Op. 41, No. 3. Winterthur String Quartet. 1-12" disc (CH-CHC-38). \$4.85.

MARCH

The New Records

1950

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H. ROYER SMITH COMPANY

PAGE 2

PDF to image:



NewRecords.pdf



```
from pathlib import Path
import fitz # PyMuPDF
from tqdm import tqdm

pdf_path = Path("data/ocr/newrecords18.pdf")
outdir = Path("data/ocr/pages")
outdir.mkdir(parents=True, exist_ok=True)

doc = fitz.open(pdf_path)

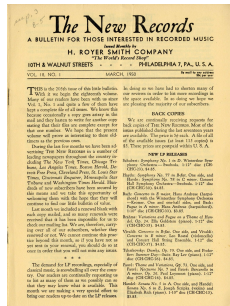
for i, page in tqdm(enumerate(doc), desc="converting", total=len(doc)):
    pix = page.get_pixmap(dpi=300)
    pix.save(outdir / f"page_{i + 1:03d}.png")

doc.close()
```



Transcribing with an API: Setup

- Step 1: Encode the image



```
''' '''
SETUP: Define OPENAI_API_KEY in your environment variables before running this script.
''' '''

from openai import OpenAI
from pathlib import Path
from dotenv import load_dotenv
import base64

load_dotenv(override=True)

PAGES_ROOT = Path("data/ocr/pages")
OUT_ROOT = Path("data/ocr/transcriptions")
OUT_ROOT.mkdir(parents=True, exist_ok=True)

# Function to encode the image
def encode_image(image_path):
    with open(image_path, "rb") as image_file:
        return base64.b64encode(image_file.read()).decode("utf-8")
```



iVBORw0KGgoAAAANSUhEUgAAB90AAaQICAAABhrijPEAA
AACXBIWXM AAC4jAAAUlwF4
pT92AJ1zpkIEQVR4nHS9B5M
cSZKIWI/5ZO9uZ8IMT3dVoUA
SyTkBSZCq7pG93bkh20XAEy
QJknMCiBJIpKAVfXMT72zz+2
FRqBXxCTEw8PDibkR1adPn3
01//OZJ//0d9P/+vul2+dS+eXs2t
229XsXFn/+VuXpv/798s/fzv3r3
z/6b/9x8cevt+6f335wYWei7dn
Di/rU1/U7363dPqPybqbvxCP2I
Z++Xvvl2+Uf/zD3z3+7cfu7V48
7d+5ffD3Zu6qr/Le/Wf7xm1ePu
3ef9Khs3jnPxouHnTrgzVtfy0d
dzyc6nk9c3L53/uWijoO5QRWd
QWV/dkDn105t7z7RYRe1vfe0
P+1/2rs32/d2puf1VJeKNI496dh
5cP71ZLfuz+vuuc07Z3fuX9A2/
339pP/5gy7dlS6tv+u/5PtzybO

Transcribing with an API: Setup

- Step 2: Define your prompt

```
# __PROMPT__  
  
prompt = """  
transcribe the text on the provided document page image as accurately as possible.  
"""
```


Transcribing with an API: Call

- Call to ChatGPT 5 mini:

User:
transcribe the text on
the provided
document page
image as accurately
as possible.



iVBORw0KGgoAAAANSUhEUg
AAB90AAAQlCAIAAAAhjPEAA
AACXBIWXMAAC4jAAAUlwF4
pT92AJ1zpkI.....

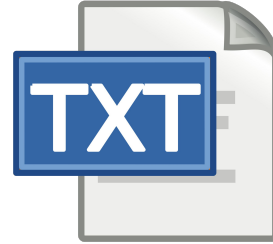
```
pages = sorted(PAGES_ROOT.glob("*.png"))

client = OpenAI()

for page in pages:
    base64_image = encode_image(page)

    response = client.responses.create(
        model="gpt-5-nano",
        input=[
            {
                "role": "user",
                "content": [
                    {"type": "input_text", "text": prompt},
                    {
                        "type": "input_image",
                        "image_url": f"data:image/jpeg;base64,{base64_image}",
                    },
                ],
            },
        ],
    )

    out_path = OUT_ROOT / f"{page.stem}.txt"
    with open(out_path, "w", encoding="utf-8") as f:
        f.write(response.output_text)
```



page_001.txt

Transcribing with an API: Results

see p. 3
8-5

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In doing so we have had to shorten many of our reviews in order to list more recordings in the space available. In so doing we hope we are pleasing the majority of our subscribers.

BACK COPIES

We are continually receiving requests for back copies of THE NEW RECORDS. Most of the issues published during the last seventeen years are available. The price is 5¢ each. A file of all of the available issues (at least 115 copies) is \$5. These prices are postpaid within U. S. A.

NEW LP RELEASES

Schubert: *Symphony No. 1 in D*. Winterthur Symphony Orchestra—Swoboda. 1-12" disc (CH-CHC-25). \$4.85.

Haydn: *Symphony No. 77 in B-flat*. One side, and Haydn: *Symphony No. 78 in C minor*. Concert Hall Symphony Orchestra—Swoboda. 1-12" disc (CH-CHC-30). \$4.85.

Bach: *Concerto in E major*, Hans Andrease (harpichord) with the Winterthur Symphony Orchestra—Kromer. One and one-half sides, and Bach: *Fugue in A minor*. Hans Andrease (harpichord). 1-10" disc (CH-CHC-33). \$3.85.

Brahms: *Variations and Fugue on a Theme of Handel*. Op. 24. Ella Goldstein (piano). 1-12" disc (CH-CHC-35). \$4.85.

Vivaldi: *Concerto in B-flat*. One side, and Vivaldi: *Concerto in E minor*, Leo Rostal (violinello) and Concert Hall String Ensemble. 1-12" disc (CH-CHC-37). \$4.85.

Tchaikovsky: *Dumka*, Op. 59. One side, and Prokofiev: *Summer Day—Suite*. Ray Lev (piano). 1-12" disc (CH-CHC-26). \$4.85.

Fauré: *Theme and Variations*, Op. 73. One side, and Fauré: *Nocturne No. 7* and Fauré: *Barcarolle in A minor*, Op. 26. Paul Loyonnet (piano). 1-12" disc (CH-CHC-16). \$4.85.

Handel: *Sonata No. 3 in A*. One side, and Handel: *Sonata No. 6 in E*, Joseph Scripta (violin) and Elizabeth Rich (piano). 1-10" disc (CH-CHC-15). \$3.85.



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Cost: ~0.3 cents per page

Local OCR

1. find suitable model (trained for the purpose; fits on device)
2. download model and processor
3. format input
4. generate conditional on input
5. decode the output into text

Local OCR: find a suitable model

Models 313

Filter by name


 **deepseek-ai/DeepSeek-OCR**

 Image-Text-to-Text •  3B • Updated 5 days ago •  1.34M •  •  2.23k


 **lightonai/LightOnOCR-1B-1025**

 Image-to-Text • Updated 1 day ago •  4.85k •  110


 **ibm-granite/granite-docling-258M**

 Image-Text-to-Text •  0.3B • Updated Sep 23 •  220k •  997


 **AvitoTech/avision**

 Image-Text-to-Text •  7B • Updated 7 days ago •  214 •  17



 **nvidia/nemoretriever-ocr-v1**

 Image-to-Text • Updated 3 days ago •  30 •  10

 **Hugging Face**

Search models, datasets, users...

 **PaddlePaddle/PaddleOCR-VL**

 like

1.16k

Follow

 PaddlePaddle

721



Image-Text-to-Text

PaddleOCR

 Safetensors

 English

 Chinese


 multilingual


 padd


conversational

custom_code


 arxiv:2510.14528

 License: apache-2.0

 **Model card**

 Files and versions

 xet

 Community **53**

PaddleOCR-VL: Boosting Multilingual Document Parsing via a 0.9B Ultra-Compact Vision-Language Model

 Stars

62k



HuggingFace



ModelScope



Demo on HuggingFace



Demo on ModelScope



Discord



ERNIE



PaddlePaddle



license



Apache 2.0



Official Demo: [Baidu AI Studio](#) | [arXiv: Technical Report](#)

Local OCR: load the model and instantiate processor

```
model_path = "PaddlePaddle/PaddleOCR-VL"
model = (
    AutoModelForCausalLM.from_pretrained(
        model_path, trust_remote_code=True, torch_dtype=torch.bfloat16
    )
    .to(DEVICE)
    .eval()
)
processor = AutoProcessor.from_pretrained(model_path, trust_remote_code=True)
```

OCR with local LLM



```
image_dir = Path("data/ocr/pages")
image_paths = sorted(image_dir.glob("*.png"))
image = Image.open(image_paths[0]).convert("RGB") # first image

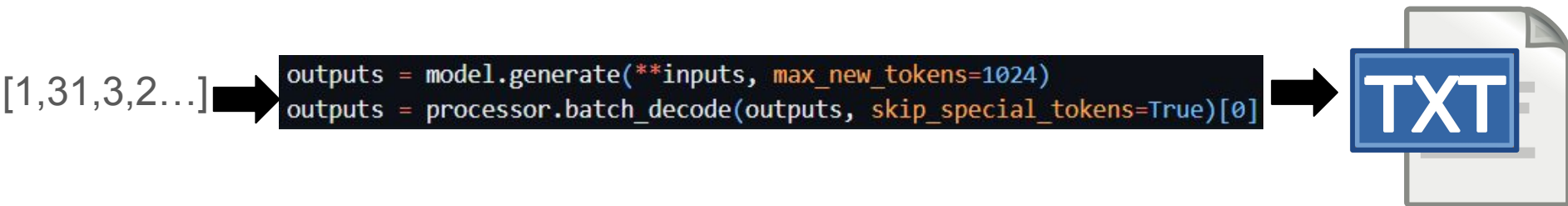
messages = [
    {
        "role": "user",
        "content": [
            {"type": "image", "image": image},
            {"type": "text", "text": "OCR:"},
        ],
    }
]

inputs = processor.apply_chat_template(
    messages,
    tokenize=True,
    add_generation_prompt=True,
    return_dict=True,
    return_tensors="pt",
).to(DEVICE)
```




[1,31,3,2...]

OCR: process and decode



What to do with raw text: extracting structured info



🎭 artist		🎭 piece		# year		📍 place		# price	
Missing:	0 (0%)	Missing:	0 (0%)	Missing:	7 (100%)	Missing:	2 (29%)	Missing:	0 (0%)
Distinct:	6 (86%)	Distinct:	7 (100%)	Distinct:	0 (0%)	Distinct:	4 (57%)	Distinct:	4 (57%)
Virgil Thomson	29%	Louisiana Story	14%	0 Distinct values	Philadelphia	29%			
Leroy Anderson	14%	Five Portraits	14%		Boston	14%			
Bizet	14%	Irish Suite	14%		Covent Garden	14%			
Other	43%	Other	57%		Other	14%			
0	Virgil Thomson	Louisiana Story	Missing value	Philadelphia	3.5				
1	Virgil Thomson	Five Portraits	Missing value	Philadelphia	3.85				
2	Leroy Anderson	Irish Suite	Missing value	Boston	4.0				
3	Bizet	Carmen Suite	Missing value	Missing value	3.5				
4	Tchaikovsky	Capriccio Italien, Op. 45	Missing value	Missing value	4.85				
5	Gavin Gordon	The Rake's Progress	Missing value	Covent Garden	4.85				
6	Tchaikowsky	Symphony No. 5 in E minor, Op. 65	Missing value	Berlin	4.85				

Instructor: define what you want

```
import instructor
from pydantic import BaseModel, Field

class SingleArtPiece(BaseModel):
    """Schema in which to return the information about a single art piece"""

    artist: str = Field(..., description="name of the artist")
    piece: str = Field(..., description="name of the art piece")
    year: Optional[int] = Field(None, description="year the art piece was created")
    place: Optional[str] = Field(
        None, description="place where the art piece was created or performed"
    )
    price: Optional[float] = Field(None, description="price of the art piece in USD")

class AllArtPieces(BaseModel):
    """schema in which to return all extracted information"""

    art_pieces: list[SingleArtPiece] = Field(
        ..., description="list of art pieces with structured information"
    )
```

Instantiate client, load descriptions, pass input & model

```
all_art_pieces: list[SingleArtPiece] = []
for i, transcription in enumerate(transcriptions):
    print(f"Processing transcription {i + 1}/{len(transcriptions)}")

    response = client.responses.create(
        response_model=AllArtPieces,
        input=prompt.format(transcription=transcription),
    )

all_art_pieces.extend(response.art_pieces)
```

Example: flatten into a csv

```
all_art_pieces: list[SingleArtPiece]
```

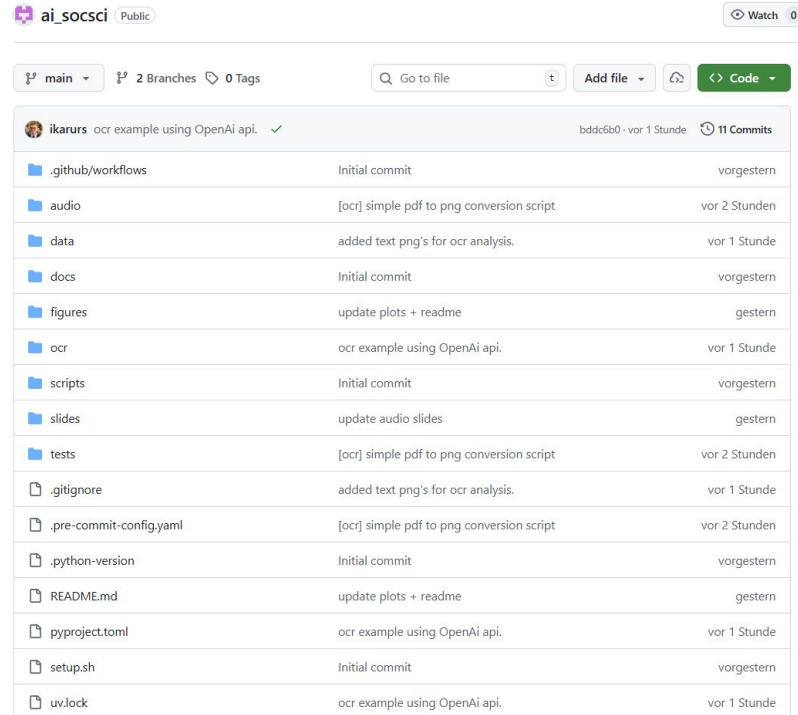
... loop

```
df = pd.DataFrame([piece.model_dump() for piece in all_art_pieces])  
df.to_csv(out_path, index=False)
```

artist	piece	year	place	price
Virgil Thom	Louisiana Story		Philadelph	3.5
Virgil Thom	Five Portraits		Philadelph	3.85
Leroy Ande	Irish Suite		Boston	4
Bizet	Carmen Suite			3.5
Tchaikovsk	Capriccio Italien, Op. 45			4.85
Gavin Gorr	The Rake's Progress		Covent Ga	4.85
Tchaikows	Symphony No. 5 in E m		Berlin	4.85

For Future Reference:

https://github.com/DGoettlich/ai_socsci



ai_socsci Public		Watch 0
main	2 Branches 0 Tags	Go to file Add file Code
ikarurs	ocr example using OpenAi api. ✓	bddc6b0 - vor 1 Stunde 11 Commits
.github/workflows	Initial commit	vorgestern
audio	[ocr] simple pdf to png conversion script	vor 2 Stunden
data	added text png's for ocr analysis.	vor 1 Stunde
docs	Initial commit	vorgestern
figures	update plots + readme	gestern
ocr	ocr example using OpenAi api.	vor 1 Stunde
scripts	Initial commit	vorgestern
slides	update audio slides	gestern
tests	[ocr] simple pdf to png conversion script	vor 2 Stunden
.gitignore	added text png's for ocr analysis.	vor 1 Stunde
.pre-commit-config.yaml	[ocr] simple pdf to png conversion script	vor 2 Stunden
.python-version	Initial commit	vorgestern
README.md	update plots + readme	gestern
pyproject.toml	ocr example using OpenAi api.	vor 1 Stunde
setup.sh	Initial commit	vorgestern
uv.lock	ocr example using OpenAi api.	vor 1 Stunde