My Project

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# **Namespace Index**

## 1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

config									 	 																	5
extract	or								 	 																	6
main .									 	 																	7
parser									 	 																	8
writer									 	 																	9

2 Namespace Index

# File Index

## 2.1 File List

Here is a list of all files with brief descriptions:

config.py																				 					11
extractor.	•																								
main.py																									12
parser.py																				 					12
writer.py																									12

File Index

# **Namespace Documentation**

## 3.1 config Namespace Reference

#### **Variables**

- str MAIN\_FOLDER = "Main\_term\_sheet"
- str GEMINI MODEL = "gemini-2.5-flash"
- str GROQ\_MODEL = "llama-3.3-70b-versatile"
- int TOP\_K = 6
- int CHUNK\_SIZE = 2000
- int **OVERLAP** = 200
- str PROMPTS\_FILE = "Prompts/prompts\_term\_sheet.json"
- str EXCEL\_FILE = "TermSheet Output.xlsx"

#### 3.1.1 Variable Documentation

#### 3.1.1.1 CHUNK\_SIZE

```
int config.CHUNK_SIZE = 2000
```

#### 3.1.1.2 EXCEL\_FILE

```
str config.EXCEL_FILE = "TermSheet Output.xlsx"
```

#### 3.1.1.3 GEMINI\_MODEL

```
str config.GEMINI_MODEL = "gemini-2.5-flash"
```

#### 3.1.1.4 GROQ\_MODEL

```
str config.GROQ_MODEL = "llama-3.3-70b-versatile"
```

#### 3.1.1.5 MAIN\_FOLDER

```
str config.MAIN_FOLDER = "Main_term_sheet"
```

#### 3.1.1.6 OVERLAP

```
int config.OVERLAP = 200
```

#### 3.1.1.7 PROMPTS\_FILE

```
str config.PROMPTS_FILE = "Prompts/prompts_term_sheet.json"
```

#### 3.1.1.8 TOP\_K

```
int config.TOP_K = 6
```

### 3.2 extractor Namespace Reference

#### **Functions**

- List[str] extract\_text\_from\_pdf (str path)
- List[str] chunk\_text (str text, int chunk\_size=2000, int overlap=200)
- List[Dict] extract\_chunks\_from\_termsheet (str termsheet\_pdf, int chunk\_size=500, int overlap=200, str folder\_name=None)

#### 3.2.1 Detailed Description

```
extractor.py
- extract_text_from_pdf(pdf_path): returns list of pages' text
- extract_chunks_from_termsheet(termsheet_pdf, chunk_size=2000, overlap=200)
  returns list of dicts: { "chunk": str, "source": "termsheet", "page": int, "folder": folder_name }
```

#### 3.2.2 Function Documentation

#### 3.2.2.1 chunk\_text()

Naive chunking by characters with overlap.

#### 3.2.2.2 extract\_chunks\_from\_termsheet()

#### 3.2.2.3 extract\_text\_from\_pdf()

### 3.3 main Namespace Reference

#### **Functions**

- find\_all\_pdfs (str folder\_path)
- main ()

#### 3.3.1 Detailed Description

```
Main pipeline for Term Sheet extraction

- Walk MAIN_FOLDER, find all PDFs

- Extract chunks -> parse -> write to Excel

- Each PDF corresponds to one row in EXPORT sheet
```

#### 3.3.2 Function Documentation

#### 3.3.2.1 find\_all\_pdfs()

#### 3.3.2.2 main()

```
main.main ()
```

#### 3.4 parser Namespace Reference

#### **Functions**

- Dict build\_tfidf\_index (List[Dict] chunks)
- List[int] retrieve\_top\_k (str query, Dict index, int k=5)
- str assemble\_context (List[Dict] chunks, List[int] top\_indices)
- Dict call\_groq (str model, List[Dict] messages, float temperature=0.0, int max\_retries=3)
- List[Dict] parse with Ilm (List[Dict] chunks, str prompts path, str grog model, int top k=5)
- List[Dict] parse\_with\_llm\_gemini (List[Dict] chunks, str prompts\_path, str gemini\_model, int top\_k=5)
- Dict call gemini (str model gemini, List[Dict] messages, float temperature=0.0, int max retries=3)

#### 3.4.1 Detailed Description

```
parser.py
- Loads prompts from Prompts/prompts_spo_framework.json
- Builds a TF-IDF index over extracted chunks
- For each prompt, filter chunks by "run_for" (framework/spo/both),
   retrieve top_k chunks, create system/user message,
   and call Groq LLM to produce the output JSON.
- Exports a list of parsed JSONs (one per prompt).
```

#### 3.4.2 Function Documentation

#### 3.4.2.1 assemble\_context()

#### 3.4.2.2 build\_tfidf\_index()

#### 3.4.2.3 call\_gemini()

#### 3.4.2.4 call\_groq()

```
Dict parser.call_groq (
    str model,
    List[Dict] messages,
    float temperature = 0.0,
    int max_retries = 3)
```

#### 3.4.2.5 parse\_with\_llm()

#### 3.4.2.6 parse\_with\_llm\_gemini()

#### 3.4.2.7 retrieve\_top\_k()

## 3.5 writer Namespace Reference

#### **Functions**

- Workbook \_init\_workbook ()
- None write\_to\_excel (Dict json\_data)

#### 3.5.1 Function Documentation

#### 3.5.1.1 \_init\_workbook()

```
Workbook writer._init_workbook () [protected]

Initialize the workbook with a single sheet 'EXPORT' and required headers.
```

#### 3.5.1.2 write\_to\_excel()

## **File Documentation**

## 4.1 config.py File Reference

#### **Namespaces**

· namespace config

#### **Variables**

- str config.MAIN\_FOLDER = "Main\_term\_sheet"
- str config.GEMINI\_MODEL = "gemini-2.5-flash"
- str config.GROQ\_MODEL = "llama-3.3-70b-versatile"
- int config.TOP\_K = 6
- int config.CHUNK\_SIZE = 2000
- int config.OVERLAP = 200
- str config.PROMPTS\_FILE = "Prompts/prompts\_term\_sheet.json"
- str config.EXCEL\_FILE = "TermSheet Output.xlsx"

## 4.2 extractor.py File Reference

#### **Namespaces**

· namespace extractor

#### **Functions**

- List[str] extractor.extract\_text\_from\_pdf (str path)
- List[str] extractor.chunk\_text (str text, int chunk\_size=2000, int overlap=200)
- List[Dict] extractor.extract\_chunks\_from\_termsheet (str termsheet\_pdf, int chunk\_size=500, int overlap=200, str folder\_name=None)

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### 4.3 main.py File Reference

#### **Namespaces**

· namespace main

#### **Functions**

- main.find\_all\_pdfs (str folder\_path)
- main.main ()

### 4.4 parser.py File Reference

#### **Namespaces**

namespace parser

#### **Functions**

- Dict parser.build\_tfidf\_index (List[Dict] chunks)
- List[int] parser.retrieve top k (str query, Dict index, int k=5)
- str parser.assemble\_context (List[Dict] chunks, List[int] top\_indices)
- Dict parser.call\_groq (str model, List[Dict] messages, float temperature=0.0, int max\_retries=3)
- List[Dict] parser.parse\_with\_llm (List[Dict] chunks, str prompts\_path, str groq\_model, int top\_k=5)
- List[Dict] parser.parse\_with\_llm\_gemini (List[Dict] chunks, str prompts\_path, str gemini\_model, int top\_k=5)
- Dict parser.call\_gemini (str model\_gemini, List[Dict] messages, float temperature=0.0, int max\_retries=3)

## 4.5 writer.py File Reference

#### **Namespaces**

· namespace writer

#### **Functions**

- Workbook writer.\_init\_workbook ()
- None writer.write\_to\_excel (Dict json\_data)