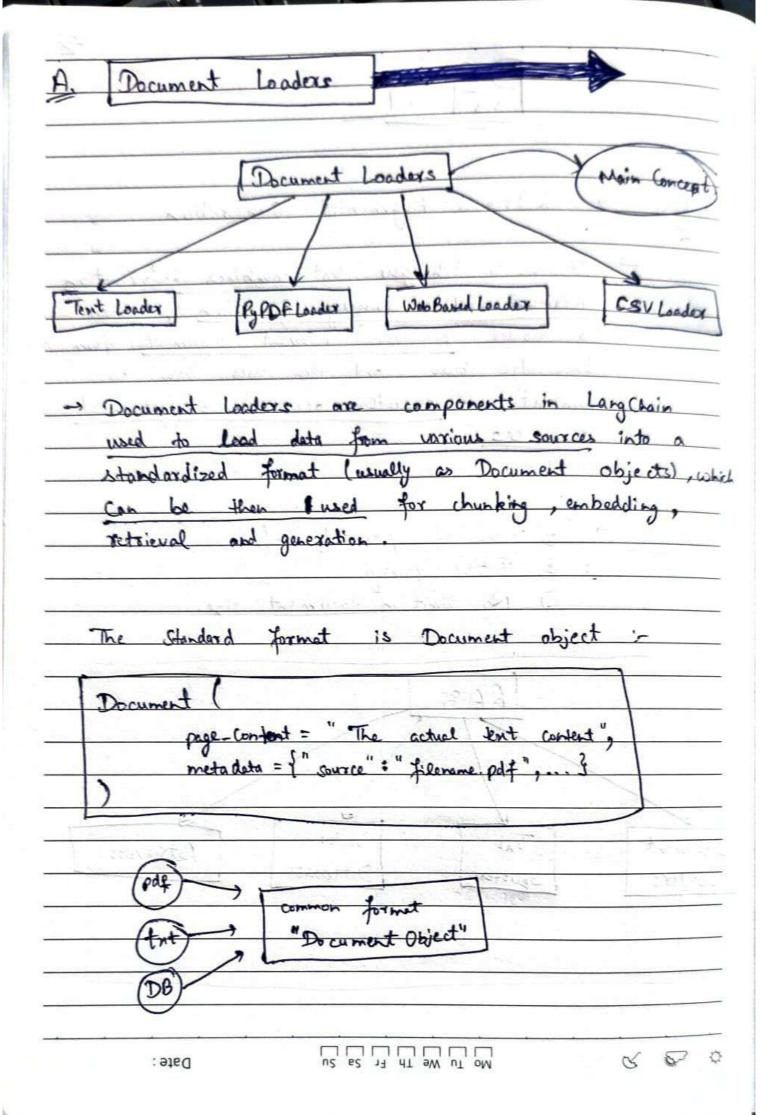
RAG

RAG > Retrieval - Augmented Generation The is a technique that combiner information retrieval with longuage generation, where a model rotainers relevant documents from
knowledge base and then uses them as context to generate accurate a grounded
responses.
Benefit Duse of up to date info. Better privacy. B No limit on document size.
RAG
ocument Tent Vector Retrievers onders Splitters Dutabases



1) Tent Loader → simple and commonly used doc. los
that seads plain tent files and
convert them into Document Objects.
· use - for loading that logs, scraped tent, transcritions code snippets, or any plane tent data in langulain pipeline.
· Limitations + works only with etat files.
tot file Document Obj
loader = Tent Loader ("poem.txt") docs = loader, load ()
and the same of th
The does is a list of document objects.
does[0] - is a document obj.
the commence of the commence o
does [0]. page-context is the context.
the Address of Language 1
Television all adapte store to the term.
Mo Tu We Th Fr Sa Su Date:

document o	combert from PDF files.
The table begins to	
Document (page content = "	, metadata = ["page": 0, "source: "file
1	
mitations: It uses PyPD	of library under the hood.
layouts.	eat with scanned PDF ar con
Lagous,	The state of the s
	To the second second
ore PDF looders:-	
ore PDF looders:-	Loadex
ore PDF looders:-	
use case	Loadex
ore PDF loodors:- Use case Simple Clean PDF	Pop Loadex Pop Plumber Loadex Unstructured Pop Loadex
Ore PDF looders:- Use case Simple Clean PDF PDF s with tables/columns	PyPDF Loadex PDF Plumber Loadex

	to Good multiple document	to to
din	ectory/folder of files.	John 9
	J' T' at Asses,	
		-
loader = Directory Load	lex (
path = "	./ Sample Dir ",	
glob = '	" - pdf ",	11 7 7
leader_	cle = "PyPDF Loodex	
)		
	The state of the s	
glob pattern	what it loads	
"**/*.tnt"	All'that' files in all subfolders	
" *.pdf"	All ". pdf" files in root folder	n n
"data/*.csv"	All ".esu" files in "date!" folder	
4 ** * 11	All file types in all folders	
	Mark with Lake and the section of the	
Note > - loading a	lot of document at once	
Slow operation		15 very
Therefore we	e will use Lazy Loading	
	and the same of th	
7: 7	· v	
-: <u>/</u> .	s Kalenda Santanan Bandara	
	Yaka a samah masa masa masa samar	
	Total Control of the second	
	1 - Exercis on a source	

	load()	lazy-load()
•	Enger loading (loads everything at once)	lazy loading (loads on demand)
•	Returns: a list of documents	Returns: a generator of document objects.
	Loads all documents immediately into the memory.	Documents are not loaded all at once; they're fetched one at a time as needed.
	Best when:- The no. of documents is small. You want everything loaded	Pest when: You are dealing with large documents or lots of files. You want to stream
	upfront	embedding) without using lots of memory.

- Create your own document loader at:-

Python . long chain . com/docs/how_to/document_loader_custom/

Mo Tu We Th Fr 5a Su

C F

9	WebBaseloader - a document loader to in Long Chain
_	content from web pages (URLs).
	It was Boomtiful Soup under the hood to parce HTM and contract visible tent.
	When to use : for blogs, news articles, or public wholes where the content is primarily tent-based and static.
	Limitations: * Does n't handle JavaScript heavy pages well [Use Selenium URL Looder for that). · Loods only static content (what's in the HTML, not that loods after the page render).
3	CSVLoader -> wed to load CSV file into lang Chain Document objects - one pex sow, by default.
P_	More lacders can be found at :-
_	Python. lang chain . com / docs / integrations / document-loaders/
-	Ao Tu We Th Fr Sa Su Date: