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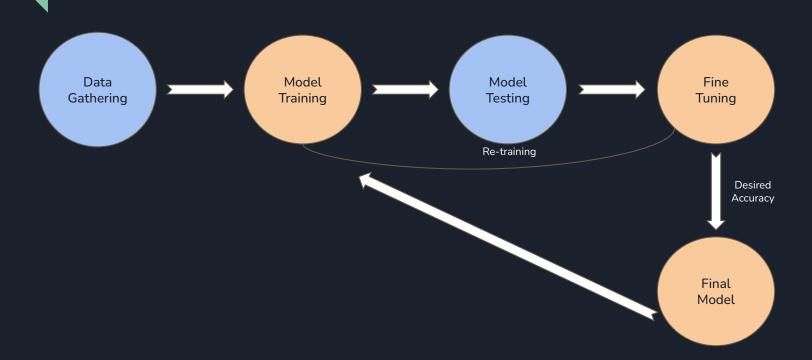
Problem Statement

Financial Professional Labor Intensive, Repetitive Generating Searching Summary for Specifics in Long the Document Documents **Financial Documents**

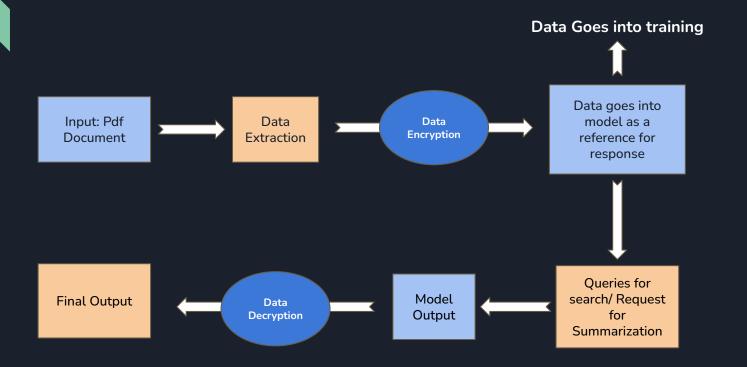
Key Points of Solution

- A Generative Artificial Intelligent Model which can give prompt based on user queries to establish and interaction between a specific document and end user.
- Interactive User Interface which gives user an ease to deal with any day to day work queries. Along with the search engine, this UI can have presets for Narrative Generation as well which will give them ability to narrow down the document to their choice of length.
- Security: Here we propose a data encryption level between models and stored data to create a level of security for personal data in any document.

Proposed Architecture



User Flow



Our Approach

Model Selection



Benefits of using OpenAl

- 1. Time and Effort
- 2. Quality and Performance
- Versatility and Generalisation

Fine Tuning

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Step-1 Step-2 Step-3 Step-4 Step-5 Step-6

Collect the Data Prepare Dataset Model Fine-tuning Evaluate the Model Model

{"prompt": "<prompt text>", "completion": "<ideal generated text>"}

{"prompt": "<prompt text>", "completion": "<ideal generated text>"}

{"prompt": "<prompt text>", "completion": "<ideal generated text>"}

...
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158,9430,158,1.2783321754032657,0.0,0.6857142857142857
159.9479.159.0.16008178826746491.0.0.0.9310344827586207
160,9544,160,0.6758862524847791,0.0,0.7333333333333333
161,9577,161,0.1435559882807138,0.0,0.83333333333333334
162,9658,162,0.8369836318911258,0.0,0.703125
163.9699.163.0.35382720277179036.0.0.0.88
164,9740,164,0.02251026292727329,1.0,1.0
165,9813,165,1.21573824711338,0.0,0.5660377358490566
166,9878,166,0.26902523666649586,0.0,0.94
167,9911,167,0.33536444241529806,0.0,0.88
168,9960,168,0.14137046161226557,0.0,0.9666666666666667
169,9993,169,0.1373116601631773,0.0,0.9473684210526315
170,10058,170,2.785077327242941,0.0,0.34
171,10083,171,0.28371954885156203,0.0,0.8666666666666667
172,10116,172,0.03877903473141486,1.0,1.0
173,10157,173,0.2586696839854121,0.0,0.8846153846153846
174,10198,174,0.6687561104666675,0.0,0.8
175,10263,175,0.471584084957711,0.0,0.8571428571428571
176, 10320, 176, 0.3934339769665218, 0.0, 0.875
177.10361.177.0.2580340173833538.0.0.0.8846153846153846
178, 10434, 178, 0.4574699312667325, 0.0, 0.8947368421052632
```

User Interface

For UI experience, we employed ChainLit library as it provides seamless integration of LLM model with ChatGPT like interface.

Chainlit/chainlit Build Python LLM apps in minutes At 4 Contributors Contributors Chainlit/chainlit Build Python LLM apps in minutes Contributors Contributors Contributors Contributors Contributors Contributors Contributors Contributors Contributors

Why we love ChainLit for this Project?

- 1. Easy Integration
- 2. Features at our disposal
- 3. Better User Experience

Live Demo - 1

File Name: 2009 Outstanding AFCPE® Conference Paper

File Type: Research Paper File Format: PDF

Qualitative question

who are the main authors of this paper?

Table based question

what are the NEFE Sample % of all race/ethnicity?

Narrative question

summarize the methodology.

Live Demo - 2

File Name: Capgemini integrated Annual Report 2022

File Type: Financial Report (k-10) File Format: PDF

Quantitative questions

what is the average age of employees? How much is the organic free cash flow? Qualitative questions

what are the seven values?

Graph based question

revenue growth by country

Off guard questions

Tallest building in the world

Future Prospects

- Implementation on Data Privacy and Security (As proposed in Solution architecture)
- Improvement of Graphical Data Identification and Representation
- Implement Reinforcement Learning based on User Response
 - Possible User Response: From 1 5 where, 1 being unsatisfied and 5 being Satisfied with desired output.

Q/A Session