Horalesoham 2307014902 NLP Assignment 5 Explaination for coeation of Application # Follow, are maior features for condition of  $\rightarrow$ applicath Determine the types of Docs. & summarized 2) choosing Model: - becide in an LLM like apt-4 Tubo which are capable of handling large context coindows and complete swoomae) exto fasks, 3) Corrisonment Setup: - attorstall necessary python liboarles such as 'largehairs openai's (+iktoken; b) set emisono variable like open AI\_API-RET? 1) Document loading! - Use a pypof loader) as sissifue to load the documents that need summarization 5) Sommaii zato Approach: \_ Destuff method: I use a 'stuff doc. ahair to combine all docs. Forto a simple prompt and summarise there together 2) MAP: - Reduce Method: frost map each doc. to an individual summary them reduce these summarise to a final composehension summary vising MAPREDUCE DOG\_CHAINT



- 6) Tronplermentath:
  - Defre poorable templantes for mapping
  - Forploonoon the LLM chairs with
  - specific prompts for each step/stage - combine the map and reduce haton Loo a final output
- Split docs. It they are too long walng tools like Character Text splitter.

Run the summarisett chain & oreluste the outputs to accuracy 2 completeness.

- 8) Refinement 2,5 ainy;
  - Depositions on the results serve the posompi & adjust the model parameters,
    - consider imageoneration (Reflore Doc-Chair)

for iterative supprovaisato to enhance detail & aceuracy.

- g) Deployonoop. Ensure the convisionoment con scale especially
  - if processing large volume of docs, fromprement mornitoring and bagging to handle failures and ensure performance
- 10) feedback loop: collect osce feedback on the summaise to constinously improve the sommasization logic & model templay.