Self Proposed Final Project Grading Rubric

Grade Percentage	Description
20%	 T1: Document Input, Parsing, and Chunking Enable input of and set up processes for accurate text extraction from pdf educational documents. Remove irrelevant symbols, extra line breaks, other noise and normalize text if needed such as converting text to lowercase. Split text into chunks that can fit within the LLMs token limit. After chunking, organize each segment in a structured format (probably a dictionary).
25%	 T2: Flashcard JSON Creator For each chunk, use LLM prompts to extract key terms, definitions, summarizations of the text, and questions for flashcards. Store all flashcard in a CSV format that is compatible with the popular Anki flashcard software and includes: Front: Key concept or question. Back: Answer or explanation. Tags (optional): To categorize by topics and allows for organizing cards within Anki. The goal is the user will use this to create flashcards and use Anki's software to go over them seamlessly.
30%	 T3: Quiz, Knowledge Gap Detection, and Flashcard Adaption Create a system for the user, after they have spent some time on Anki going over the flashcards, which presents the front side of flashcards one at a time and allows typed in answers on the terminal. Use an LLM to evaluate the score of flashcard answers by comparing the inputted responses to the correct answers on the back of the card. Log which questions were answered incorrectly and identify specific knowledge gaps based on these results. Use the LLM to generate new flashcards targeting concepts the user got wrong in the quiz to improve their understanding in future rounds of studying. Additionally also remove flashcards of topics the user has shown mastery in.

	- Append new flashcards to the existing Anki-compatible deck and export updated flashcards in a CSV format compatible with Anki for further flashcard practice on the platform.
25%	 Evaluation I want to evaluate this by creating flashcards from the relevant chapters of my Probability textbook and see how encompassing the topics of the flashcards are my comparing result to a set-list of topics I would expect to be covered by the flashcards (which I will in advance push to my repo). Additionally I will judge the accuracy of the LLMs scoring of responses by creating test cases to see if correct and incorrect responses are labeled correctly. Hopefully I can finish this all before my Probability final comes around!