



Part 1: Retrieval-Augmented Generation (RAG) Model for QA Bot

Problem Statement: Develop a Retrieval-Augmented Generation (RAG) model for a Question Answering (QA) bot for a business. Use a vector database like Pinecone DB and a generative model like Cohere API (or any other available alternative). The QA bot should be able to retrieve relevant information from a dataset and generate coherent answers.

Deliverables:

- **A Colab notebook demonstrating the entire pipeline, from data loading to question answering.**
 -  Task_1_Sample_Set.ipynb
- **Documentation explaining the model architecture, approach to retrieval, and how generative responses are created.**
 -  architecture
- **Provide several example queries and the corresponding outputs.**

Query: tell me about Luxewear?

Answer: LuxeWear is a clothing company that prioritizes customer satisfaction. They offer free exchanges for domestic orders and a hassle-free return policy for items that are unworn, unwashed, and undamaged within 30 days of receipt. LuxeWear is committed to sustainable fashion, ensuring ethically sourced fabrics and eco-friendly production methods. They also offer complimentary gift wrapping and responsive customer support through email and live chat.

Query: What products do you offer?

Answer: LuxeWear Clothing offers a range of fashion items that are sustainably sourced and produced. They prioritize customer satisfaction and offer a hassle-free return and exchange policy. The company also provides complimentary gift wrapping and responsive customer support.

Query: How can I contact customer support?

Answer: You can contact customer support via email at support@luxewear.com or via live chat on the website from 9 AM to 6 PM, Monday to Friday.