

**Divyesh Sharma**

# Myntra RAG AI Assistant

RAG + Ranking + AI

Confidential

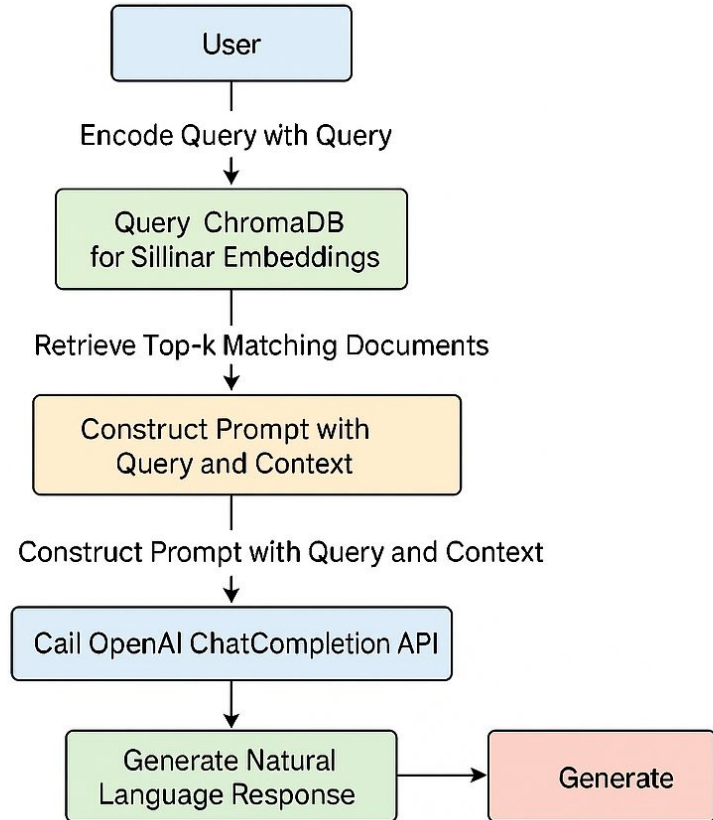
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# Project Overview

- **Retrieval-Augmented Generation (RAG) for fashion product search**
- **Uses ChromaDB for vector search and GPT for natural responses**
- **Interactive UI built with Streamlit**

## FashionRAGAssistant Architecture: Retrieval-Augmented Generation Flow



## Architecture Diagram

# How It Works

1. **fashion\_rag.py** - Main logic class
2. **myntra\_rag\_system.ipynb** - EDA & embedding
3. **streamlit.py** - Visual query interface
4. **ChromaDB** vector store and dataset file

# Components Overview

1. `myntra_rag_system.ipynb` - EDA, embeddings, ChromaDB setup
2. `fashion_rag.py` - Retrieval + GPT response
3. `streamlit.py` - User interface for queries

# Embedding Pipeline

1. Load Fashion CSV
2. Perform EDA & clean data
3. Generate embeddings using SentenceTransformer
4. Persist in ChromaDB for vector search

# Example Use Cases

- **"Show me casual summer women western wear with large size"**
- **"Show me casual winter women western wear"**
- **"Show me some kids western wear"**
- **Returns product list with AI-powered answers**

# Tech Stack & Libraries

- **OpenAI GPT (chat.completions)**
- **ChromaDB (vector store)**
- **SentenceTransformers (HuggingFace)**
- **Streamlit (UI)**
- **Python-dotenv**



# Credits

- **Created by Divyesh Sharma**
- **Powered by OpenAI, ChromaDB, HuggingFace, Streamlit**
- **License: MIT**

# Demo Screenshots

# Fashion RAG Assistant

Ask your fashion-related query!

Enter your fashion query:

Show me casual summer women western wear with large size

Get Answer

AI Answer:

I found a casual summer women's western wear option in large size:

- Name: H&M Women Green Oversized Printed Sweatshirt
- Price: ₹2299.0
- Description: Oversized top in sweatshirt fabric with a print motif on the front. Round, rib-trimmed neckline, low dropped shoulders, long sleeves, and ribbing at the cuffs and hem. Soft brushed inside. 59% cotton, 41% polyester. Machine wash. The model (height 5'8") is wearing size S.
- Attributes: Body Shape ID: 443, 424, 324; Body or Garment Size: Garment Measurements in; Center Front Open: No; Character: NA; Closure: NA; Fabric: Cotton; Fabric Type: NA; Hemline: Straight; Hood: NA; Length: Regular; Multipack Set: NA; Neck: Round Neck; Number of Pockets: NA; Occasion: Casual; Pattern: Printed; Pocket: NA; Print or Pattern Type: Typography; Sleeve Length: Long Sleeves; Sport: NA; Sport Team: NA; Surface Styling: NA; Sustainable: Regular; Technology: NA; Type: Pullover; Wash Care: Machine Wash; Weave Type: Knitted
- Average Rating: 4.1 out of 5 from 1044 ratings

Please let me know if you need more options or details.

# Fashion RAG Assistant

Ask your fashion-related query!

Enter your fashion query:

Show me casual winter women western wear

Get Answer

AI Answer:

Here are a few options for casual winter women western wear:

1. Diwaah Women Black & Gold-Toned Embellished Coat with Skirt
2. Urbanic Women Khaki Ruched Crop Top with Skirt

These outfits are perfect for a casual winter look.

# Fashion RAG Assistant

Ask your fashion-related query!

Enter your fashion query:

Show me some kids western wear

Get Answer

AI Answer:

Here are some kids western wear options:

1.

Name: KID1 Girls Navy Blue & Orange Embellished Ready to Wear Lehenga Brand: KID1 Price: ₹1999.0  
Description: Navy blue and orange embellished lehenga choli set with navy blue and orange printed lehenga and blouse. Dry clean only.

2.

Name: VASTRAMAY Girls Pink & Red Printed Ready to Wear Cotton Lehenga & Choli Brand: VASTRAMAY  
Price: ₹2999.0 Description: Pink and red printed lehenga choli set with slip-on closure. Blouse fabric: Cotton, Lehenga fabric: Cotton.

3.

Name: BITIYA by Bham Girls Maroon & Gold-Toned Embroidered Ready to Wear Lehenga Choli Brand: BITIYA by Bham Price: ₹3999.0 Description: Maroon and gold-toned embroidered lehenga choli set with maroon and cream-colored solid semi-stitched lehenga and ready-to-wear blouse. Hand wash care.

## Github link for project.

1. <https://github.com/dsharma3/FashionAIRAGAssistant>

# Thanks