

Fashion Search AI System Using Gen AI:

Project Overview and Analysis

Objectives:

The primary goal of this project is to create an AI-powered fashion query response system that delivers detailed and user-friendly answers to fashion-related questions. The system is designed to improve the user experience by generating contextually relevant and informative responses, helping users discover fashion items that match their preferences.

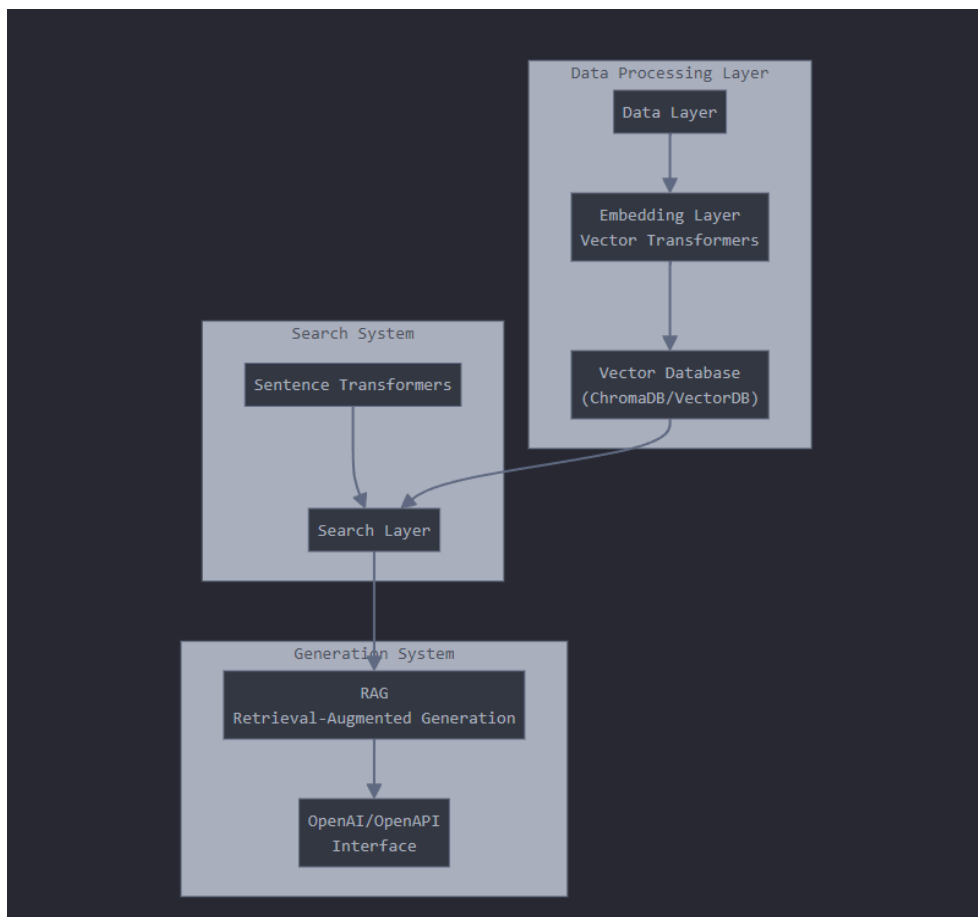
System Design:

The project is structured into two key layers: the search layer and the generation layer.

- Search Layer: This layer retrieves relevant fashion items from the dataset using keyword matching or other predefined criteria.
- Generation Layer: Leveraging advanced AI models like GPT-3.5, this layer generates detailed, context-aware responses to user queries, producing natural language outputs that enhance user understanding.

Architecture:

Architectural Framework Implemented in this Solution:



The implementation comprised several key steps, including data preprocessing, model integration, and the generation of query responses.

The CSV dataset was reformatted to improve its quality and readability. Blank entries were filled, decimal points were standardized, and irrelevant columns were removed. Additionally, text columns were cleaned to eliminate HTML tags and extraneous characters.

The system was enhanced by integrating advanced AI models like GPT-3.5 to generate responses to user queries. These queries were processed by the model, which produced detailed and contextually appropriate answers.

User queries were processed through both the search and generation layers. The search layer identified relevant fashion items from the dataset, while the generation layer used AI models to craft detailed responses. These responses were contextually rich and presented in natural language. Here are the few queries that were used to test the model:

#Query 1: an orange summer dress or kurta to wear over blue denim jeans.

Search Layer:

Query: a orange summer dress or kurta to wear over blue denim jeans .

Top 3 Search Layer

ID: 8255913

ID: 7572969

ID: 18390376

Index	Metadata		1 to 3 of 3 entries Filter ?	
		Documents	Distances	IDs
	[REDACTED]	Black and orange printed kurta with palazzo,Black and orange straight cut long kurtas has a round neck,three-quarter sleeves,straight hem side slit,Black and orange printed palazzo,drawing closure.The model (height 5'6") is wearing a size Stop fabric: Viscose Rayon,Bottom fabric: Viscose Rayon,Machine-washable.. Name:"Vishnu Women Red & Orange Printed Kurta with Palazzo","Product_Info": "2549","Product_Attributes":{"Add-Ons": "NA","Body Shape ID": 443.333.324.424,"Body or Garment Size": "Garment Measurements in Bottom Closure: Drawing: Bottom Fabric: Viscose Rayon, Bottom Pattern: Printed, Bottom Type: Palazzo, Character NA, Dupatta NA, Dupatta Border NA, Dupatta Fabric NA, Dupatta Pattern NA, Main Thread NA, Neck Round Neck, Number of Pockets NA, Occasion Day, Ornamentation NA, Pattern Coverage: None, Print or Pattern Type: Floral, Sleeve Three-Quarter Sleeves, Sleeve Styling: Regular Sleeves, Sil Detail: Side Slit, Silhouette Ready to Wear, Sustainable: Regular, Technique Screen, Top Design Styling: Regular, Top Fabric: Viscose Rayon, Top Hemline: Straight, Top Length: Cut Length, Top Pattern: Printed, Top Style: Kurti, Waistband: Elasticated, Wash Care: Machine Wash, Weave Pattern: Regular, Weave Type: Machine Weave"},"Product_Id": 8255313,"Product_Type": "Kurta, Palazzo","Rating": 4.2,"RatingCount": 1436}	0.2630471096913905	8255313
	[REDACTED]	"Vishnu": "Color": "Red", "Description": "Red and orange self design kurta with palazzo,Red and orange a-line aridg long kurtas has a mandarin collar long sleeves,fared hem front slit,Red and orange sold palazzo,drawing closure.The model (height 5'6") is wearing a size Stop fabric: Cotton Blend,Dry-clean.. Name:"Vishnu Women Red & Orange Self Design Kurta with Palazzo","Product_Info": "8790","Product_Attributes":{"Body Shape ID": 443.333.324.424,"Body or Garment Size": "Garment Measurements in Bottom Closure: Drawing: Bottom Fabric: Cotton Blend, Bottom Pattern: Solid, Bottom Type: Palazzo, Dupatta NA, Dupatta Border NA, Dupatta Fabric NA, Dupatta Collar NA, Neck Mandarin Collar, Occasion Festive, Ornamentation NA, Pattern Coverage: None, Print or Pattern Type: Floral, Sleeve Long Sleeves, Sleeve Styling: Regular Sleeves, Sil Detail: Front Slit, Silhouette Ready to Wear, Sustainable: Regular, Top Design Styling: Regular, Top Fabric: Cotton Blend, Top Hemline: Flared, Top Length: Floor Length, Top Pattern: Self Design, Top Shape: A-Line, Top Type: Kurta, Waistband NA, Wash Care Dry Clean, Weave Pattern: Jacquard, Weave Type: Machine Weave"},"Product_Id": 7572969,"Product_Type": "Kurta, Palazzo","Rating": 4.1,"RatingCount": 220}		
	[REDACTED]	"XALINI": "Color": "Orange", "Description": "Orange printed kurta with Palazzo with dupatta,Kurta design: Ethnic Motifs,printed,A-line shape,Round Neck,Three quarter regular sleeves,Calf length with straight hem,Pure cotton machine weave fabric,Palazzo design: Printed,Trousers,Elasticated waistband,Slip-on closure,Pure Cotton,Regular Machine-washable.The model (height 5'6") is wearing a size S". Name:"XALINI Women Orange Printed Pure Cotton Kurta with Trouser & With Dupatta","Product_Info": "3000","Product_Attributes":{"Add-Ons": "NA","Body Shape ID": 383.64,"Body or Garment Size": "To Fit Decide Body Measurements in Bottom Closure: Slip-On, Bottom Fabric: Pure Cotton, Bottom Pattern: Printed, Bottom Type: Trousers, Character NA, Dupatta With Dupatta, Dupatta Border: Printed, Dupatta Fabric: Pure Cotton, Dupatta Pattern: Printed, Main Thread: Floral, Neck: Round Neck, Number of Pockets: NA, Occasion: Day, Ornamentation: NA, Pattern Coverage: Large, Print or Pattern Type: Ethnic Motif, Sleeve Length: Three-Quarter Sleeves, Sleeve Styling: Regular Sleeves, Sil Detail: Side Slit, Silhouette Ready to Wear, Sustainable: Regular, No-trim: Screen, Top Design Styling: Regular, Top Fabric: Pure Cotton, Top Hemline: Straight, Top Length: Calf Length, Top Pattern: Printed, Top Shape: A-Line, Top Type: Kurta, Waistband: Elasticated, Wash Care: Machine Wash, Weave Pattern: Regular, Weave Type: Machine Weave, Wedding Gowns & Gifting"},Product_Id": 18390376,"Product_Type": "Kurta, Trouser, Dupatta","Rating": 4.2,"RatingCount": 10}	0.2636427616916574	18390376

Show 25 per page

Generation layer:


#Query 2: I'm looking for office wear sarees in elegant colors like pink, violet, or green. I prefer sarees with full embroidered designs, suitable for professional settings. There's no specific price range, as quality is my priority. These sarees will be worn for office meetings and formal events.

Search Layer:


Query:
I'm looking for office wear sarees in elegant colors like pink, violet, or green.
I prefer sarees with full embroidered designs, suitable for professional settings.
There's no specific price range, as quality is my priority.
These sarees will be worn for office meetings and formal events.

Top 3 Search Layer


ID: 14006764



ID: 14006702



ID: 19165458



Index	Metadata	Documents
0	<p>(Brand: "Saree Mall", Colour: "Green", Description: "Offering both style and elegance, this saree is the ideal festive wear. Its attractive floral print lends an ethnic touch, while the woven design border adds class. Green woven design saree, Floral print, Woven design border, Silk blend blouse, Silk blend, Dry clean, 5.5 metres plus 0.8 metre (bottom) blouse piece, Width: 1.00 metres (approx).", Name: "Saree Mall Green Saree", Price: ₹1299, Product attributes: "Blouse: Blouse Piece, Blouse Fabric: Silk Blend, Border: Woven Design, Care for me: silk naturally keeps away from dust and does not need frequent washing/keep away from alcohol-based products/Pre-soak in cold water by turning it upside down/Dry clean or hand wash separately with a mild detergent/iron upside down/Store in a muslin cloth away from sunlight in a dry environment/No the little every few months, Multipack Set: NA, Occasion: Traditional, Ornamentation: NA, Pattern: Woven Design, Print or Pattern Type: Floral, Saree Fabric: Silk Blend, Style Tip: Accentuate your saree with traditional hoops adorned with stones, and comfy flat sandals, and a stunning cummerbund. Sustainable: Regular, Trends: NA, Type: Banarasi, Wash Care: Dry Clean, Wedding: Guests & Gifting, Where-to-wear: Ideal to wear to a high-tea party with friends.", Product_ID: "14006764", Product_Type: "Saree", Rating: 4.4, RatingCount: 80)</p>	<p>Offering both style and elegance, this saree is the ideal festive wear. Its attractive floral print lends an ethnic touch, while the woven design border adds class. Green woven design saree, Floral print, Woven design border, Silk blend blouse, Silk blend, Dry clean, 5.5 metres plus 0.8 metre (bottom) blouse piece, Width: 1.00 metres (approx).", Name: "Saree Mall Green Saree", Price: ₹1299, Product attributes: "Blouse: Blouse Piece, Blouse Fabric: Silk Blend, Border: Woven Design, Care for me: silk naturally keeps away from dust and does not need frequent washing/keep away from alcohol-based products/Pre-soak in cold water by turning it upside down/Dry clean or hand wash separately with a mild detergent/iron upside down/Store in a muslin cloth away from sunlight in a dry environment/No the little every few months, Multipack Set: NA, Occasion: Traditional, Ornamentation: NA, Pattern: Woven Design, Print or Pattern Type: Floral, Saree Fabric: Silk Blend, Style Tip: Accentuate your saree with traditional hoops adorned with stones, and comfy flat sandals, and a stunning cummerbund. Sustainable: Regular, Trends: NA, Type: Banarasi, Wash Care: Dry Clean, Wedding: Guests & Gifting, Where-to-wear: Ideal to wear to a high-tea party with friends.", Product_ID: "14006764", Product_Type: "Saree", Rating: 4.4, RatingCount: 80)</p>
1	<p>(Brand: "Saree Mall", Colour: "Pink", Description: "Breathe life into your ethnic collection by adding this elegant-looking saree. Designed with a floral print, woven border and a silk blend fabric, this piece is sure to add to your appeal. Design Details: Pink and blue Dyed Banarasi saree, Floral printed saree with woven design border, Trend Alert: Soft, light and soothing pastels always make a comeback in the spring and summer seasons. Encompassing a palette of hues including delicate pink, pale lilac, cool blues and mint tints, pastels exude a fresh, youthful vibe. Saree fabric: Silk Blend, Dry clean, Length: 5.5 metres plus 0.8 metre (bottom) blouse piece, Width: 1.00 metres (approx).", Name: "Saree Mall Pink & Blue Floral Dyed Banarasi Saree", Price: ₹1799, Product attributes: "Blouse: Blouse Piece, Blouse Fabric: Silk Blend, Border: Woven Design, Multipack Set: NA, Occasion: Traditional, Ornamentation: NA, Pattern: Printed, Print or Pattern Type: Floral, Saree Fabric: Silk Blend, Style Tip: Accentuate your saree with traditional hoops adorned with stones, and comfy flat sandals, and a stunning cummerbund. Sustainable: Regular, Trends: NA, Type: Banarasi, Wash Care: Dry Clean, Wedding: Guests & Gifting, Where-to-wear: Ideal to wear to a high-tea party with friends.", Product_ID: "14006702", Product_Type: "Saree", Rating: 4.2, RatingCount: 62)</p>	<p>Breathe life into your ethnic collection by adding this elegant-looking saree. Designed with a floral print, woven border and a silk blend fabric, this piece is sure to add to your appeal. Design Details: Pink and blue Dyed Banarasi saree, Floral printed saree with woven design border, Trend Alert: Soft, light and soothing pastels always make a comeback in the spring and summer seasons. Encompassing a palette of hues including delicate pink, pale lilac, cool blues and mint tints, pastels exude a fresh, youthful vibe. Saree fabric: Silk Blend, Dry clean, Length: 5.5 metres plus 0.8 metre (bottom) blouse piece, Width: 1.00 metres (approx).</p>
2	<p>(Brand: "HRITIKA", Colour: "Pink", Description: "Design Details: Pink saree, Floral embroidered saree with embroidered border, Has chikanankari detail. The saree comes with an unstitched blouse piece. The blouse worn by the model might be for modelling purpose only. Check the image of the blouse piece to understand how the actual blouse piece looks like. Saree Fabric: Poly Georgette, Blouse Fabric: Silk Blend, Dry Clean, Length: 5.5 metres plus 0.8 metre blouse piece, Width: 1.00 metres (approx).", Name: "HRITIKA Woven Pink Georgette Floral Chikanankari Saree", Price: ₹695, Product attributes: "Blouse: Blouse Piece, Blouse Fabric: Silk Blend, Border: Embroidered, Care for me: NA, Multipack Set: NA, Occasion: Festive, Ornamentation: Chikanankari, Pattern: Embroidered, Print or Pattern Type: Floral, Saree Fabric: Poly Georgette, Style Tip: traditional, trendy, stylish and graceful, there's no denying that a woman's beauty is accentuated by a saree. when you are shopping online for designer sarees for festive occasions or regular sarees for casual ethnic wear, you'll be amazed with the selection from hritika. browse through our elegant saree collection to pick your favourites for work wear, festive celebrations or everyday casuals. Sustainable: Regular, Trends: Designer Saree, Type: NA, Wash Care: Dry Clean, Wedding: Bride & Wedding Squad, Where-to-wear: casual, party, festive, traditional, work, wedding.", Product_ID: "19165458", Product_Type: "Saree", Rating: 0.0, RatingCount: 0)</p>	<p>Design Details: Pink saree, Floral embroidered saree with embroidered border, Has chikanankari detail. The saree comes with an unstitched blouse piece. The blouse worn by the model might be for modelling purpose only. Check the image of the blouse piece to understand how the actual blouse piece looks like. Saree Fabric: Poly Georgette, Blouse Fabric: Silk Blend, Dry Clean, Length: 5.5 metres plus 0.8 metre blouse piece, Width: 1.00 metres (approx).</p>

Generation layer:(2 examples)

Based on your requirements for office wear sarees in elegant colors and full embroidered designs, here are the top 3 relevant options:


1. **Saree Mall Green Saree**:
- Brand: Saree Mall
- Colour: Green
- Description: Offering both style and elegance, this saree is a versatile choice for professional settings.
- Price: Refer to the online store for current pricing.

2. **Saree Mall Pink Saree**:
- Brand: Saree Mall
- Colour: Pink
- Description: Breathe life into your ethnic collection with this beautifully embroidered saree.
- Price: Check the website for the latest price details.


3. **HRITIKA Pink Saree**:
- Brand: HRITIKA
- Colour: Pink
- Description: This pink saree features floral embroidery, perfect for a professional yet stylish look.
- Price: For current pricing information, please visit the store's website.

These sarees with intricate embroidery in elegant colors like pink and green are ideal for office meetings and formal events. You can explore these options further to find the perfect saree that matches your preference for quality and professional appearance.


ID: 14006764



ID: 14006702



ID: 19165458



Based on your preferences for office wear sarees in elegant colors like pink, violet, or green with full embroidered designs suitable for professional settings, here are the top 3 relevant options:


1. **Saree Mall Green Embroidered Saree**:
- Brand: Saree Mall
- Colour: Green
- Description: Offering both style and elegance, this saree is perfect for professional occasions. It features intricate embroidery which adds a touch of sophistication to your office wear collection.

2. **Saree Mall Pink Embroidered Saree**:
- Brand: Saree Mall
- Colour: Pink
- Description: Breathe life into your ethnic collection with this beautiful pink saree. Its full embroidered design exudes grace and charm, making it a great choice for office meetings and formal events.


3. **HRITIKA Pink Floral Embroidered Saree**:
- Brand: HRITIKA
- Colour: Pink
- Description: This pink saree boasts floral embroidery details that bring a feminine touch to your formal look. The intricate designs are perfect for adding a touch of elegance to your office wardrobe.

These sarees from Saree Mall and HRITIKA offer a blend of elegance and professionalism, making them ideal choices for your office meetings and formal events. You can explore these options further to select the one that aligns best with your style preferences.


ID: 14006764



ID: 14006702



ID: 19165458




#Query 3: I'm searching for a versatile black leather jacket, suitable for various occasions and effortlessly complementing any outfit. Preferably in size XL.

Search Layer:


Query:
I'm searching for a versatile black leather jacket, suitable for various occasions and effortlessly complementing any outfit.
Preferably in size XL.

Top 3 Search Layer


ID: 18153246



ID: 14355346



ID: 15997714



index	IDs	Documents	Distances	Metadatas
0	18153246	Black solid leather jacket with zip detail, has a mandarin collar, 2 pockets, has a zip closure,three-quarter sleeves, straight hemline, polyester lining,PU, Clean by Professional Leather CleanerThe model (height 58) is wearing a size S	0.29469652839279175	["Brand": "Justanned", "Colour": "Black", "Description": "Black solid leather jacket with zip detail, has a mandarin collar, 2 pockets, has a zip closure,three-quarter sleeves, straight hemline, polyester lining,PU, Clean by Professional Leather CleanerThe model (height 58) is wearing a size S", "Name": "Justanned Women Black Outdoor Leather Jacket", "Price_INR": 6998, "Product_attributes": "Add-Ons: NA, Body Shape ID: 324,333,424, Body or Garment Size: Garment Measurements in Character: NA, Closure: Zip, Collar: Mandarin Collar, Contact Brand or Retailer for pre-sales product queries: cam@justanned.com / +91-9355018182, Fabric: PU, Features: NA, Hemline: Straight, Length: Regular, Lining Fabric: Polyester, Main Trend: NA, Number of Pockets: 2, Occasion: Casual, Pattern: Solid, Print or Pattern Type: Solid, Sleeve Length: Three-Quarter Sleeves, Sport: Outdoor, Sport Team: NA, Surface Styling: Zip Detail, Sustainable: Regular, Technology: NA, Technology Present: No, Type: Leather Jacket, Wash Care: Dry Clean, Weave Type: Woven", "Product_Id": 18153246, "Product_Type": "Jacket", "Rating": 0.0, "RatingCount": 0]
1	14355346	Chic and versatile,this jacket will take your outfit game to another level. Designed with a lapel collar and long sleeves,this jacket will lend you a bold look. Stylish black colour,Solid pattern,Lapel collar,Long sleeves,Polyester,machine wash,Trend Alert,Biker jackets were initially designed to protect bikers from cold weather,wind,and dust during long rides. Designed with long sleeves,a zip closure,and a leatherly sheen,these jackets are now worn to make a fashion statement.Outer shell: 90% polyester,6% cotton, and 4% viscose.Lining fabric: 100% Polyester.Machine washThe model (height 58) is wearing a size S	0.2941691276397705	["Brand": "Roadster", "Colour": "Black", "Description": "Chic and versatile,this jacket will take your outfit game to another level. Designed with a lapel collar and long sleeves,this jacket will lend you a bold look. Stylish black colour,Solid pattern,Lapel collar,Long sleeves,Polyester,machine wash,Trend Alert,Biker jackets were initially designed to protect bikers from cold weather,wind,and dust during long rides. Designed with long sleeves,a zip closure,and a leatherly sheen,these jackets are now worn to make a fashion statement.Outer shell: 90% polyester,6% cotton, and 4% viscose.Lining fabric: 100% Polyester.Machine washThe model (height 58) is wearing a size S", "Name": "Roadster Women Stylish Black Solid Biker Jacket", "Price_INR": 5409, "Product_attributes": "Add-Ons: NA, Body Shape ID: 324,333,424, Body or Garment Size: To-Fit Denotes Body Measurements in Character: NA, Closure: Zip, Collar: Lapel Collar, Fabric: Polyester, Features: NA, Hemline: Straight, Length: Regular, Lining Fabric: Polyester, Main Trend: NA, Number of Pockets: 3, Occasion: Casual, Pattern: Solid, Print or Pattern Type: Solid, Sleeve Length: Long Sleeves, Sport: NA, Style Tip: Match this jacket with studded button earrings, and a pair of preppy sunglasses, and pospy call-eye sunglasses, Surface Styling: Zip Detail, Sustainable: Regular, Technology: NA, Technology Present: No, Type: Biker Jacket, Wash Care: Machine Wash, Weave Type: Woven, Where-to-view: Jazz up a fun family get-together", "Product_Id": 14355346, "Product_Type": "Jacket", "Rating": 4.0, "RatingCount": 40]
2	15997714	Black solid leather jacket with zip detail,has a mock collar,2 pockets, has a zip closure,long sleeves,hem with toggle hemline,without lining,Faux Leather,Machine washThe model (height 58) is wearing a size S	0.2977498471736908	["Brand": "Tokyo Talkies", "Colour": "Black", "Description": "Black solid leather jacket with zip detail,has a mock collar,2 pockets, has a zip closure,long sleeves,hem with toggle hemline,without lining,Faux Leather,Machine washThe model (height 58) is wearing a size S", "Name": "Tokyo Talkies Women Black Crop Leather Jacket", "Price_INR": 7149, "Product_attributes": "Add-Ons: NA, Body Shape ID: 333,424, Body or Garment Size: To-Fit Denotes Body Measurements in Character: NA, Closure: Zip, Collar: Mock Collar, Fabric: Leather, Features: NA, Hemline: Hem with Toggle, Length: Crop, Lining Fabric: Unlined, Main Trend: NA, Number of Pockets: 2, Occasion: Casual, Pattern: Solid, Print or Pattern Type: Solid, Sleeve Length: Long Sleeves, Sport: NA, Surface Styling: Zip Detail, Sustainable: Regular, Technology: NA, Technology Present: No, Type: Leather Jacket, Wash Care: Machine Wash, Weave Type: Woven", "Product_Id": 15997714, "Product_Type": "Jacket", "Rating": 4.5, "RatingCount": 33]

1 to 3 of 3 entries Filter 0

Generation layer:(2 examples)

Based on your query for a versatile black leather jacket in size XL, here are the top 3 relevant search results along with their metadata details:

1. Item ID: 18153246

- Brand: Justanned

- Description: Black solid leather jacket with zip detail, high neck, and long sleeves.

2. Item ID: 14355346

- Brand: Roadster

- Description: Chic and versatile black jacket suitable for various occasions.

3. Item ID: 15997714


- Brand: Tokyo Talkies

- Description: Black solid leather jacket with zip detail, ideal for mixing and matching outfits.


Based on the descriptions and metadata provided, you may find the black leather jackets offered by Justanned, Roadster, and Tokyo Talkies to be suitable for your versatile needs. These jackets are designed to effortlessly complement various outfits, ensuring you can make a stylish statement on any occasion.

For further details or to make a purchase, you can explore the collections of these brands in different retail stores or visit their official websites for more information.


ID: 18153246



ID: 14355346



ID: 15997714



Based on your query for a versatile black leather jacket in size XL, here are the top 3 relevant results from our fashion dataset that you might find suitable:

1. **Justanned Black Solid Leather Jacket**

- Description: Black solid leather jacket with zip detail, perfect for various occasions.

- Brand: Justanned

- Price: Information not provided

- Size availability: XL

- Style: Effortlessly complements any outfit.

2. **Roadster Black Leather Jacket**

- Description: Chic and versatile black leather jacket that suits different looks.

- Brand: Roadster

- Price: Information not provided

- Size availability: XL

- Style: Suitable for various occasions.

3. **Tokyo Talkies Black Solid Leather Jacket**

- Description: Black solid leather jacket with zip detail, providing a stylish edge.

- Brand: Tokyo Talkies

- Price: Information not provided


- Size availability: XL

- Style: Versatile for different outfits.


These leather jackets offer a stylish and versatile option in size XL, ideal for complementing various outfits. You may explore these options further to find the one that best suits your preferences and style.

If you need more detailed information on pricing or other specifications, you can visit the corresponding brand's website or retail stores for a closer look at these jackets.


ID: 18153246



ID: 14355346



ID: 15997714



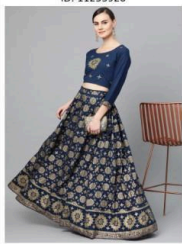
#Query 4: "I'm seeking ethnic attire suitable for adults, with a preference for the Ishin brand. These outfits are intended for festival wear. The clothing set I'm looking for should include a Navy Blue and golden foil printed top with a round neck and three-quarter sleeves, along with a matching skirt featuring a drawstring closure. Both pieces should be made of pure cotton."

Search Layer:


Query:
"I'm seeking ethnic attire suitable for adults, with a preference for the Ishin brand.
These outfits are intended for festival wear.
The clothing set I'm looking for should include a Navy Blue and golden foil printed top with a round neck and three-quarter sleeves, along with a matching skirt featuring a drawstring closure.
Both pieces should be made of pure cotton."

Top 3 Search Layer


ID: 11253928



ID: 12637050



ID: 12073072



Index	IDs	Documents	Distances	Metadata
0	11253928	This clothing set consists of top and skirt,Navy Blue and golden foil printed top,has a round neck,three-quarter sleeves,Navy blue and golden foil printed skirt,has a drawstring closure.The model (height 5'8") is wearing a size S top fabric: Pure Cotton Bottom fabric: Pure Cotton Dry-clean	0.2438337321908988	["Brand": "Ishin", "Color": "Navy Blue", "Description": "This clothing set consists of top and skirt,Navy Blue and golden foil printed top,has a round neck,three-quarter sleeves,Navy blue and golden foil printed skirt,has a drawstring closure.The model (height 5'8") is wearing a size S top fabric: Pure Cotton Bottom fabric: Pure Cotton Dry-clean", "Name": "Ishin Women Navy Blue & Golden Foil Printed Top with Skirt", "Top_ID": 11253928, "Product_attributes": "Add-Ons: NA, Bottom Closure: Drawstring, Bottom Fabric: Pure Cotton, Bottom Pattern: Printed, Bottom Type: Skirt, Character: NA, Lining: NA, Neck: Round Neck, Number of Pockets: NA, Occasion: Ethnic, Sleeve Length: Three-Quarter Sleeves, Sustainable: Regular, Top Fabric: Pure Cotton, Top Pattern: Printed, Top Type: Top, Trends: NA, Wash Care: Dry Clean", "Product_ID": 11253928, "Product_Type": "Top, Skirt", "Rating": 0.8, "RatingCount": 0]
1	12637050	This clothing set consists of a top a skirt and a top styled kurtan,Navy blue solid top,has a round neck and sleeveless,Comes with a navy blue solid kurtan styled layer,has a round neck and short flared sleeves,Comes with a fabric belt,Coral red and golden printed skirt,has a drawstring closure.The model (height 5'8") is wearing a size S top fabric: Viscose Rayon Bottom fabric: Viscose Rayon Dry-clean	0.2772480438041987	["Brand": "Ishin", "Color": "Navy Blue", "Description": "This clothing set consists of a top a skirt and a top styled kurtan,Navy blue solid top,has a round neck and sleeveless,Comes with a navy blue solid kurtan styled layer,has a round neck and short flared sleeves,Comes with a fabric belt,Coral red and golden printed skirt,has a drawstring closure.The model (height 5'8") is wearing a size S top fabric: Viscose Rayon Bottom fabric: Viscose Rayon Dry-clean", "Name": "Ishin Women Navy Blue & Coral Red Solid Top with Skirt", "Top_ID": 12637050, "Product_attributes": "Add-Ons: NA, Bottom Closure: Drawstring, Bottom Fabric: Viscose Rayon, Bottom Pattern: Printed, Bottom Type: Skirt, Character: NA, Lining: NA, Neck: Round Neck, Number of Pockets: NA, Occasion: Ethnic, Sleeve Length: Short Sleeves, Sustainable: Regular, Top Fabric: Viscose Rayon, Top Pattern: Solid, Top Type: Top, Trends: NA, Wash Care: Machine Wash, Wedding: Guests & Gifting", "Product_ID": 12637050, "Product_Type": "Top, Skirt", "Rating": 3.7, "RatingCount": 3]
2	12073072	This clothing set consists of top trousers and ethnic jacket,Green and golden foil checked top,has a round neck,sleeveless,Green and golden foil checked trousers,has a slip-on closure,Green and golden foil printed ethnic jacket,has a notched lapel collar,short sleeves,hood and eye closure, and asymmetrical hem,Comes with a matching mask.The model (height 5'8") is wearing a size S top fabric: Viscose Rayon Bottom fabric: Viscose Rayon Dry-clean	0.2793854385834918	["Brand": "Ishin", "Color": "Green", "Description": "This clothing set consists of top trousers and ethnic jacket,Green and golden foil checked top,has a round neck,sleeveless,Green and golden foil checked trousers,has a slip-on closure,Green and golden foil printed ethnic jacket,has a notched lapel collar,short sleeves,hood and eye closure, and asymmetrical hem,Comes with a matching mask.The model (height 5'8") is wearing a size S top fabric: Viscose Rayon Bottom fabric: Viscose Rayon Dry-clean", "Name": "Ishin Women Green & Golden Foil Printed Top with Trousers and Ethnic Jacket", "Top_ID": 12073072, "Product_attributes": "Add-Ons: NA, Bottom Closure: Slip-On, Bottom Fabric: Viscose Rayon, Bottom Pattern: Checked, Bottom Type: Trousers, Character: NA, Lining: NA, Neck: Round Neck, Number of Pockets: NA, Occasion: Ethnic, Sleeve Length: Sleeveless, Sustainable: Regular, Top Fabric: Viscose Rayon, Top Pattern: Checked, Top Type: Top, Trends: NA, Wash Care: Dry Clean, Wedding: Guests & Gifting", "Product_ID": 12073072, "Product_Type": "Top, Trousers, Ethnic Jacket", "Rating": 4.3, "RatingCount": 202]

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Generation layer:

Based on the information provided in the top 3 search results, I have found a relevant fashion item that aligns with your query for ethnic attire suitable for adults, specifically from the Ishin brand for festival wear. The item is described as:

Name: Navy Blue Foil Printed Top and Skirt Set

Brand: Ishin

Description: This clothing set consists of a Navy Blue and golden foil printed top with a round neck and three-quarter sleeves, paired with a matching skirt featuring a drawstring closure. Both pieces are made of pure cotton.


ID: 11253928

This set from Ishin perfectly matches your specifications for a festival attire in ethnic style. The combination of Navy Blue and golden foil print adds a touch of elegance, while the pure cotton fabric ensures comfort during festivities.


Please note that the other search results did not match the specific criteria you provided regarding the Navy Blue and golden foil printed outfit from the Ishin brand.

For more details, such as pricing and availability, I recommend visiting our website page for the Ishin brand. If you need further assistance or have any other preferences, feel free to let me know!


ID: 12073072



ID: 12637050



ID: 11253928



Several other queries were used during the project, but for the sake of brevity, I have listed only a few here, as well as in the code terminal.

Challenges:

Several challenges arose during the implementation process:

- Metadata Processing: Initially, there were issues with processing metadata, which impacted the display of results. This was addressed through debugging and refining the metadata handling code.
- Dataset Chunking: Loading the entire dataset without chunking presents memory constraints. However, due to time limitations and the manageable size of the dataset, chunking was not implemented.

Lessons Learned:

- Data Preprocessing: Ensuring proper data preprocessing is essential for maintaining data quality and readability.
- AI Model Integration: Incorporating advanced AI models can greatly improve the system's ability to generate detailed and contextually relevant responses.
- Handling Large Datasets: Managing large datasets requires careful attention to memory constraints and the implementation of efficient data processing strategies.

Future Scope:

As a future scope, the project can be extended by implementing it as a Flask web application and hosting it on a website. This would provide better interaction and aesthetics for users. Additionally, rephrasing prompts and introducing interactive sessions with criteria-based filters could further enhance the system's performance and user experience.

Conclusion:

- Comparison of Search and Generation Layers:
 - a. The generation layer produces more detailed and comprehensible results compared to the search layer.
 - b. The search layer retrieves relevant information through keyword matching or predefined criteria.
 - c. The generation layer uses advanced AI models like GPT-3.5 to dynamically generate context-aware responses with tailored, informative answers.
- Advantages of the Generation Layer:
 - a. It understands the context of queries and generates natural language responses, improving overall readability and user engagement.
 - b. The flexibility of the generation layer allows it to adapt to various query formats and provide customized responses based on user preferences.
- Value and Versatility:
 - a. The generation layer is highly valuable for tasks requiring a comprehensive understanding of queries and the effective communication of information.
 - b. Its ability to generate detailed, user-friendly responses makes it ideal for tasks that demand clarity and engagement.
- Summary:
 - a. While the search layer is efficient for retrieving relevant information, the generation layer significantly enhances the output quality and readability.
 - b. The generation layer is the preferred choice for tasks that require detailed, well-structured, and user-friendly responses.