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TATHAWADE, PUNE

A Mini- Project Report on

"Fashion AI Bot (SlayBot)"

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ARTIFICIAL INTELLIGENCE & DATA SCIENCE

ACADEMIC YEAR 2024-2025

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CERTIFICATE

This is to certify that the Mini- Project Report entitled

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is a bonafide work carried out by **Ms. Ishita Saxena** under the supervision of **Dr. Sonali Patil** and it is submitted towards the partial fulfillment of the requirement Artificial Intelligence.

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Abstract

SlayBot is an AI-driven fashion assistant designed to provide personalized and interactive fashion recommendations. Using natural language processing (NLP), the bot understands user queries related to color combinations, outfits, fashion trends, style tips, and occasion-based dress advice. The assistant offers suggestions based on factors such as body type, undertones, and specific events, making it a versatile tool for individuals seeking fashion guidance. By analyzing user input, SlayBot can recommend trendy outfits, suitable color pairings, and unique styling tips that match the user's preferences, whether for casual outings, formal events, or special occasions like weddings or parties. SlayBot's goal is to enhance the user's fashion experience by simplifying the decision-making process, making fashion advice easily accessible, and allowing users to curate outfits that match their individual style and needs. This makes SlayBot an essential tool for anyone looking to stay fashionable and confident with minimal effort.

Keywords: AI-powered fashion assistant, personalized fashion recommendations, color combinations, outfit ideas, body type advice, occasion-based styling.

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Chapter 1

Introduction

SlayBot is an innovative AI-powered fashion assistant designed to transform the way individuals approach their wardrobe choices. By integrating natural language processing (NLP) technology, SlayBot offers personalized fashion advice based on user preferences, body types, and specific occasions. This virtual assistant can help users with a range of fashion-related needs, including color combinations, outfit ideas, trending styles, and fashion tips, all tailored to their personal style.The core functionality of SlayBot revolves around its ability to interpret user input and generate relevant responses. Whether a user is looking for outfit inspiration for a wedding, seeking styling tips, or wondering what colors complement their skin tone, SlayBot responds with personalized suggestions. For instance, when asked for advice on what to wear for a formal event, SlayBot provides elegant and suitable outfit ideas. Similarly, it can recommend color pairings based on the user's undertone or body type, ensuring that the advice is both practical and flattering.SlayBot offers an intuitive and interactive user interface, making it easy for users to engage in conversations. Users can request recommendations for casual, formal, or party outfits, ask about current fashion trends, and receive specific styling tips that reflect the latest fashion sensibilities. By utilizing machine learning and NLP, SlayBot continuously improves its responses, delivering more accurate and contextually relevant suggestions over time. This AI assistant provides a smart and accessible way to stay on top of personal fashion, allowing users to feel confident and stylish with ease.

1.1 PROBLEM STATEMENT :

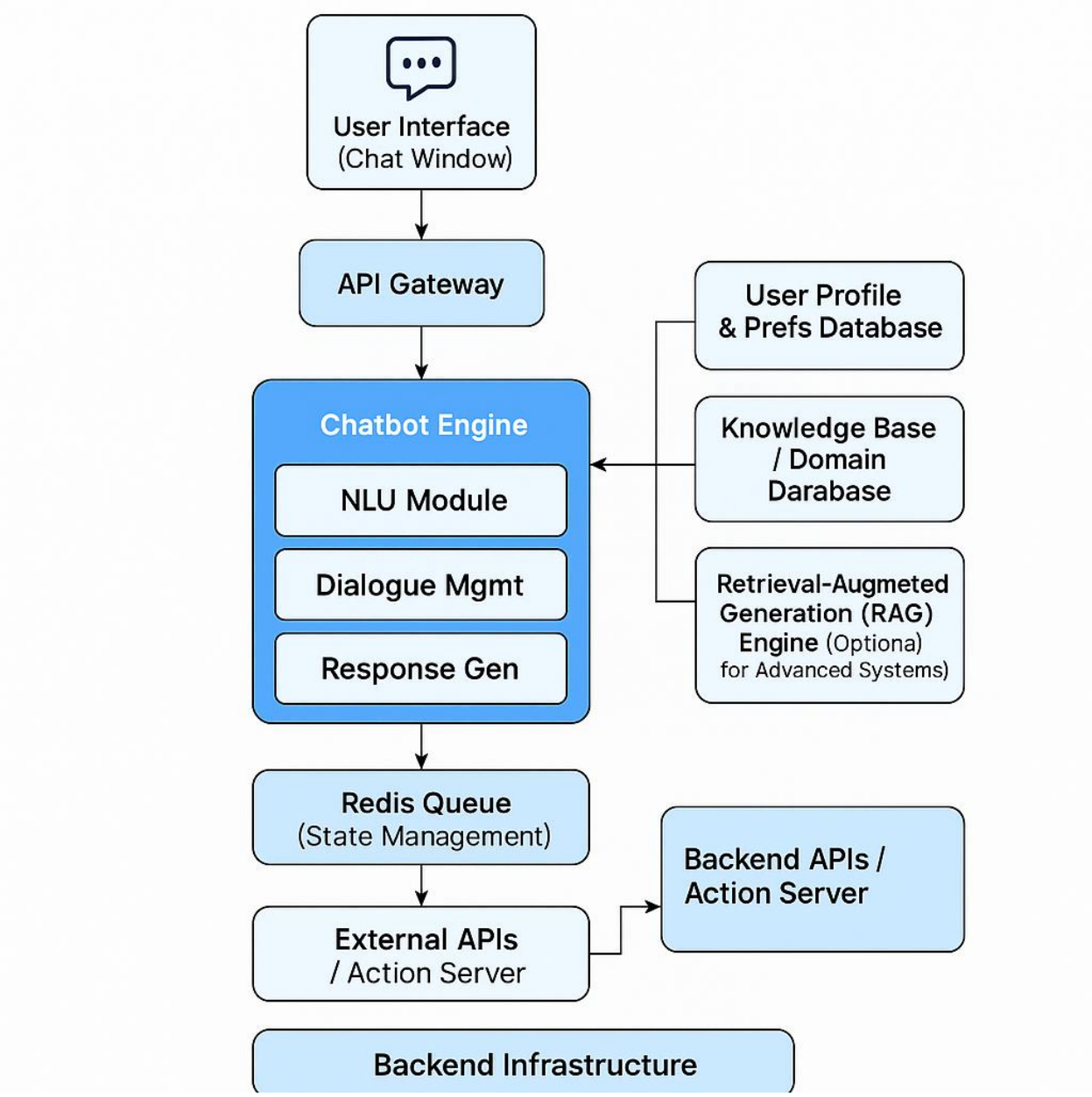
To design an AI bot that provides personalized fashion recommendations based on color, body type, and occasion, aiming to simplify outfit selection. The bot offers users tailored advice, helping them make confident and informed fashion choices effortlessly.

1.2 OBJECTIVES

- To develop an AI-powered bot that suggests fashion outfits based on users' body types, color preferences, and occasions.
- To provide personalized color combinations and styling tips that align with users' undertones and fashion needs.
- To enhance user experience by offering real-time fashion trends and Outfit of the Day (OOTD) suggestions.
- To enable users to receive customized dress advice for specific events such as casual outings, formal gatherings, parties, and more.

Chapter 2

System Architecture

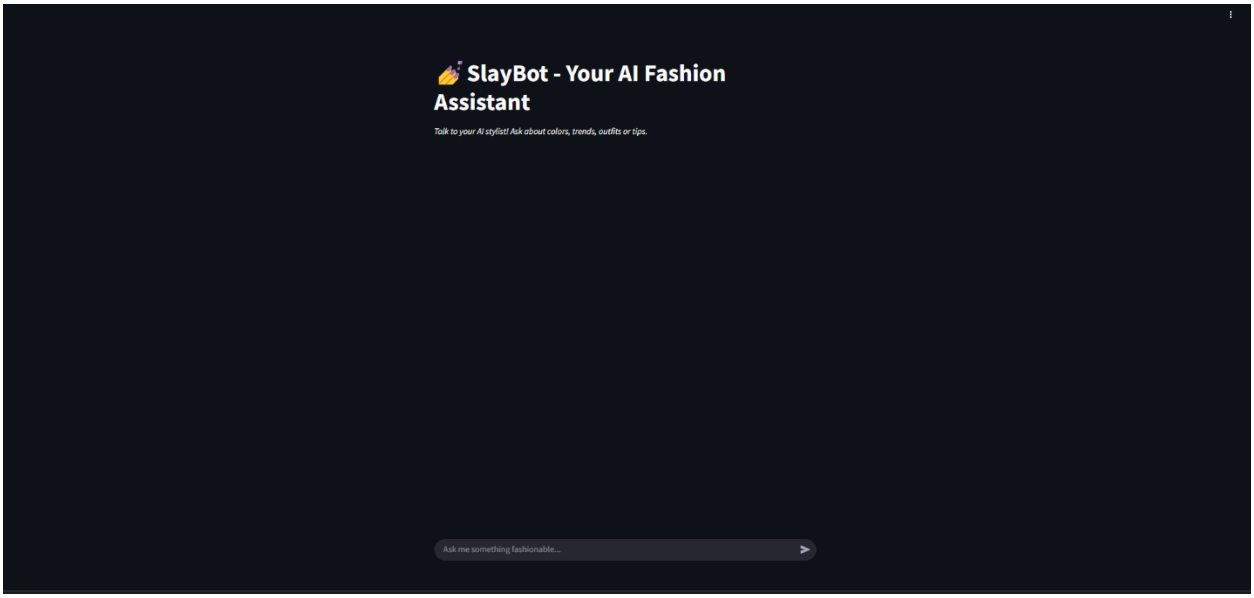


Chapter 3

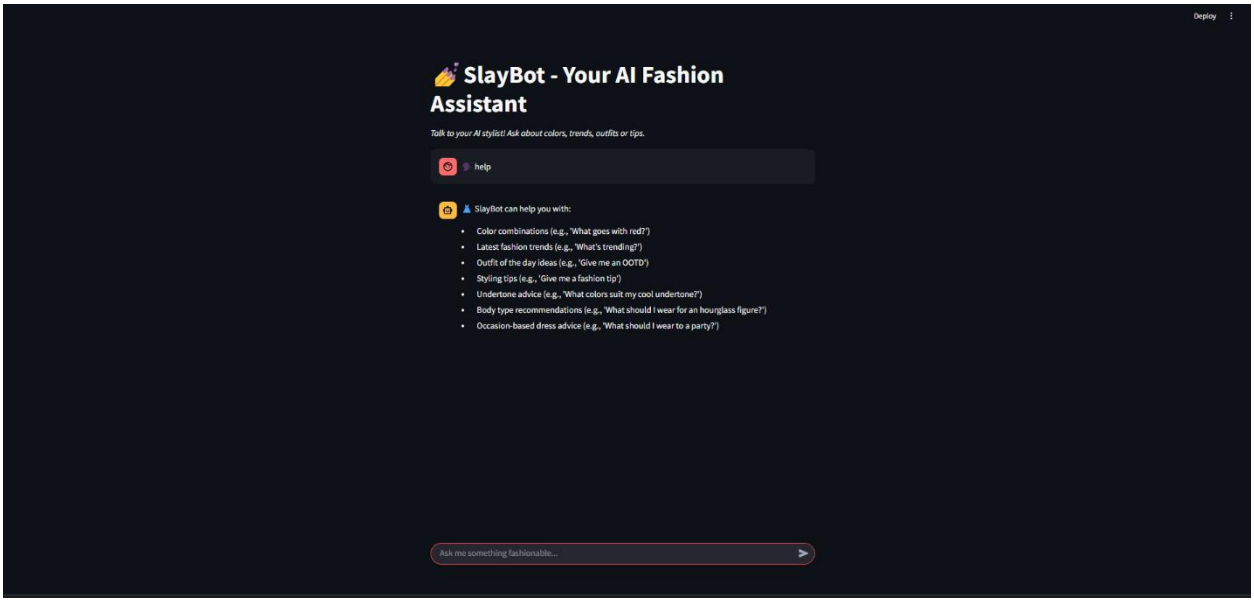
Implementation Of Code

OUTPUT

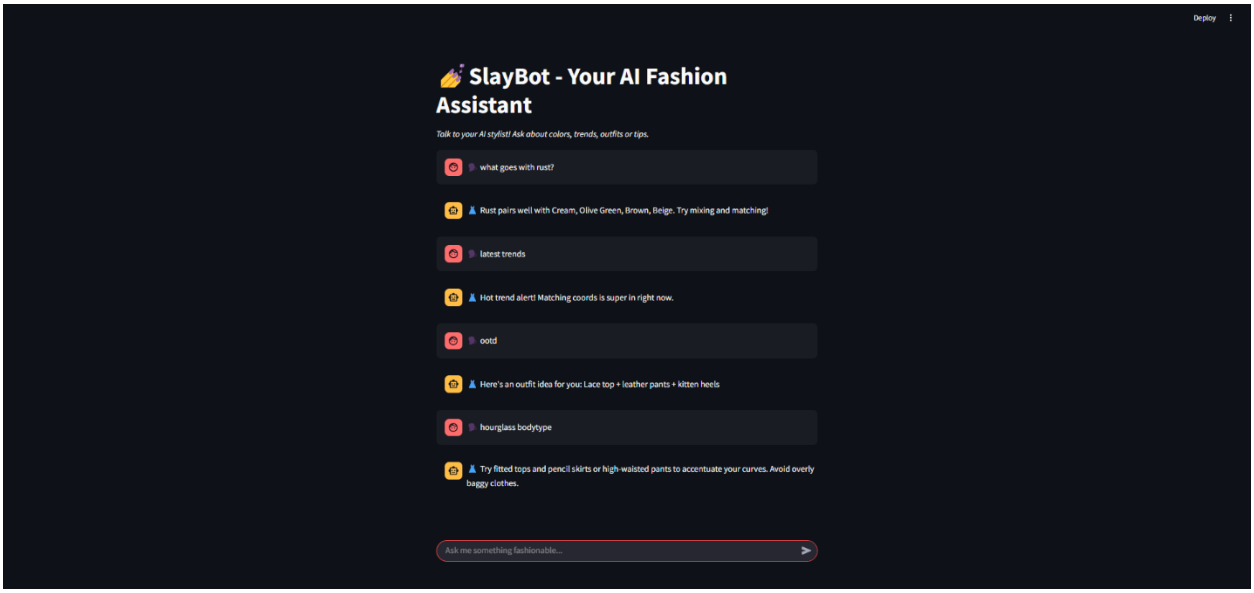
User Interface

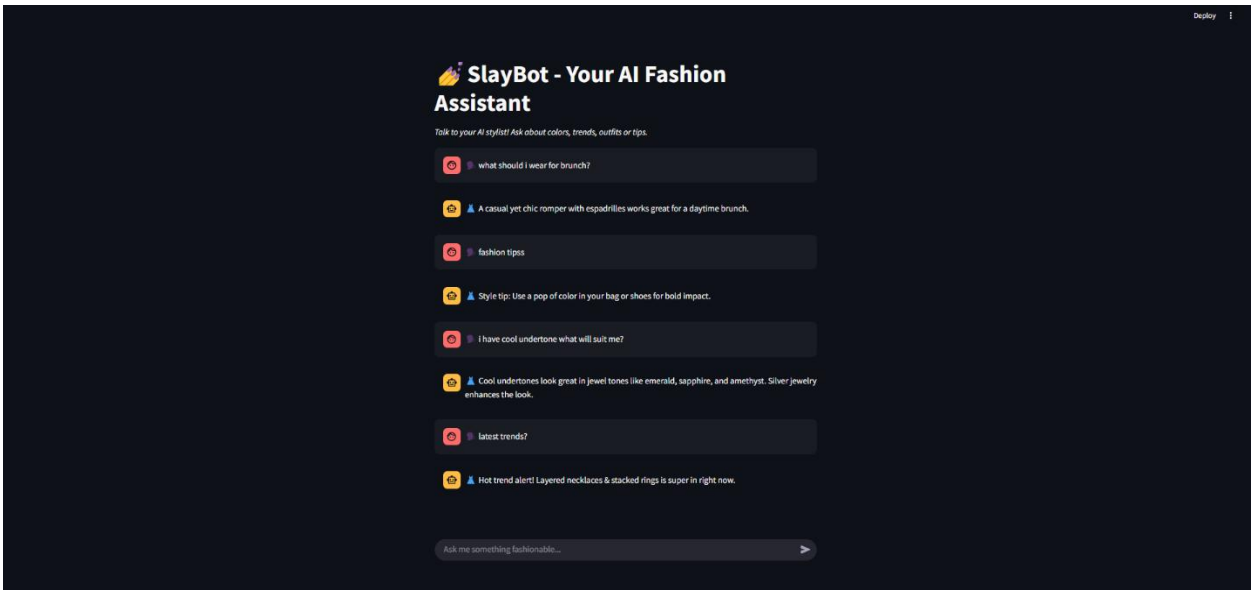


What all the bot can do

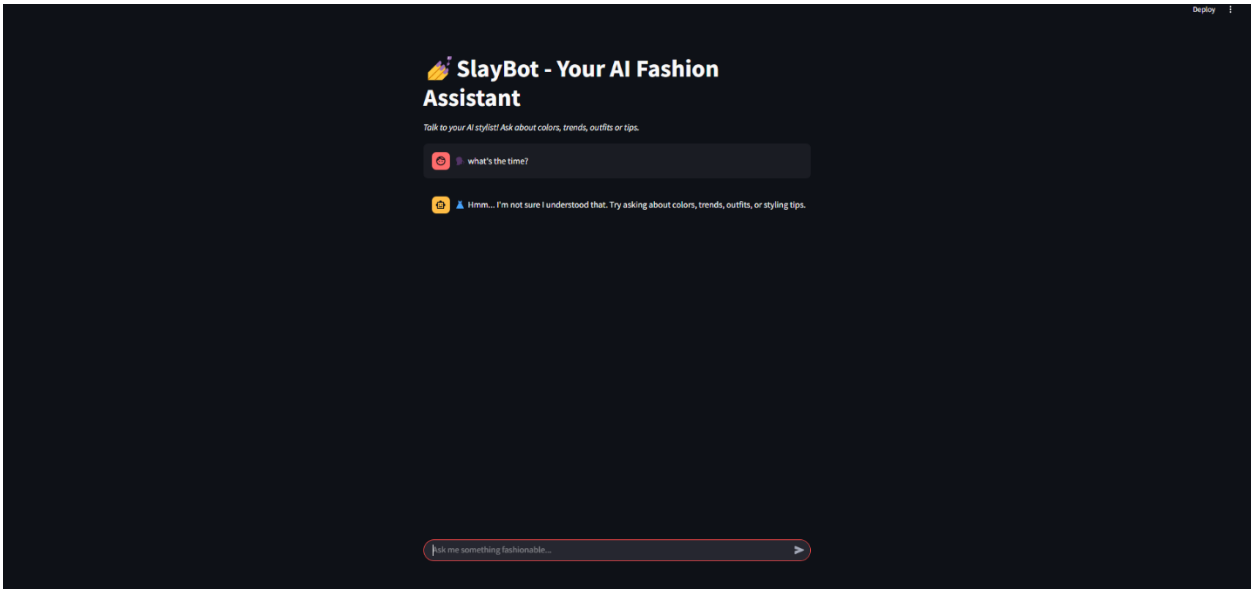


How this works





When asked irrelevant questions



Chapter 4

Analysis

4.1 Advantages

1. Personalized Recommendations

- **Offers outfit suggestions based on individual preferences, body type, undertone, and occasion.**

2. Time-Saving

- **Simplifies daily outfit planning and helps users make quick fashion decisions.**

3. User-Friendly Interface

- **Natural language interface allows intuitive and interactive conversations with the bot.**

4. Fashion Awareness

- **Keeps users updated with current fashion trends and style tips.**

5. Expandable & Scalable

- **Easily extendable to include more features like e-commerce integration, AR try-on, and multilingual support.**

4.2 Disadvantages

1. **Limited Visual Feedback**
    - Text-based responses lack visual representation of suggested outfits.
2. **Dependence on Predefined Data**
    - Fashion suggestions are limited to pre-coded combinations and cannot interpret completely new styles.
3. **Basic Understanding of Context**
    - May misinterpret vague or complex user queries due to limited NLP depth.
4. **No Real-Time Trend Learning**
    - Without backend AI training, it doesn't adapt to new trends unless manually updated.
5. **Not a Substitute for Human Stylists**
    - While helpful, it lacks the nuance, creativity, and empathy of a real stylist.

Chapter 5

Future Scope

SlayBot has strong potential for future enhancements. Real-time **e-commerce integration** could allow users to directly purchase suggested outfits, making shopping more seamless. Introducing **image-based styling** would enable users to upload clothing photos for personalized matches. A **trend forecasting module** powered by machine learning can keep fashion suggestions current. Additionally, integrating **AR virtual try-on** features would help users visualize outfits before buying. Finally, expanding to **multilingual support** would make SlayBot accessible to a global audience. These upgrades aim to transform SlayBot into a smarter, more interactive, and globally adaptable fashion assistant.

Chapter 6

Conclusion

The SlayBot AI Fashion Assistant represents a meaningful step forward in personalized fashion technology. By utilizing AI and natural language processing, it offers users tailored outfit suggestions based on color preferences, body types, occasions, and trends. Its intuitive interface enables seamless interaction, making fashion advice accessible and engaging. With potential for future expansion—such as e-commerce integration and trend forecasting—SlayBot can evolve into a comprehensive style companion. This project not only simplifies fashion choices but also reflects the growing role of AI in everyday personalization, positioning SlayBot as a valuable innovation in the intersection of fashion and technology.

Chapter 7

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