**REPORT OF THE BOT**

**Pal Patel & Dipsa Khunt**

**Introduction to Intelligent System**

**Professor: Haleema Sheraz**

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**Name of the Bot:**

Vibrant India Vagabond

**Description of the Bot:**

This Bot give different information on where to visit in India as per the likings of the user. For Example, if user ask the bot about different beaches to visit in India, it will give the locations which matches the following criteria of beaches. If you ask, how to visit there from Canada? It will give the following paths you can try to visit there. (Users need to be specific about the second location (Canada)).

**Invitation Link:**

<https://discord.com/api/oauth2/authorize?client_id=1153474260396949706&permissions=274877908992&scope=bot>

**API Calls:**

**First Api Call:** ChatCompletion is used to train the model on the attraction of India. Based on the user utterance it will generate the output giving the attractions of India. In which I have used model gpt-3.5-turbo with temperature of 1 and max\_tokens of 100.

**Second Api Call:** Completion is used to get that if the previous input is related to the current input, it will give the response in yes or no as they are related to each other or not. To achieve the dialog management, this call is being used. Text-davinci-003 model is used with max\_tokens of 15.

**Prompt Engineering:**

The goal of the prompt engineering for the first API call, ChatCompletion, was to train the model to produce responses concerning India's tourist attractions. The strategy probably consisted of offering context-rich prompts with details about the various tourist attractions in India, taken from travel guides, websites, or descriptive content that highlighted the country's landmarks, cultural heritage, and natural beauties. Examples of well-known locations, such as the Taj Mahal, historical settings, or descriptions of geographical features could have been included in the prompts. The objective was to acquaint the model with a thorough understanding of India's attractions so that it could produce pertinent and educational responses.

Regarding the second API call that made use of Completion, the prompt engineering was focused on creating links between the two inputs. Presumably, the prompts involved creating instances that required a simple "yes" or "no" response about how the current input related to the previous one. It's possible that the prompts were written in a way that required or suggested explicit connections or associations between statements. These questions were designed to assess the model's capacity for making connections by either directly posing the question about the significance of a given statement to another or by potentially drawing from situations that logically lead to related answers. This method helped train the model to handle dialogue well and recognize the contextual connections between successive inputs.

**Test Cases:**

* **Simple Test Case**

1. **Prompt:**  Hi, how are you? **(pass)**

**Response:** Hello! I'm doing great, thank you. How can I assist you today? If you have any questions or need information about India's cities and their attractions, feel free to ask!

1. **Prompt:** How can you help me? **(pass)**

**Response:** If you're looking for travel recommendations in India, I can provide you with interesting insights about the mesmerizing Taj Mahal in Agra, the vibrant markets of Jaipur, or the serene backwaters of Kerala. Let me know what specifically interests you and I'll be happy to assist you!

1. **Prompt:** elaborate on More specifically on the kerala **(pass)**

**Response**: Kerala, known as "God's Own Country," is a tropical paradise nestled along the southwestern coast of India. With its serene backwaters, lush green landscapes, and pristine beaches, Kerala offers a unique blend of natural beauty and cultural heritage. Explore the tranquil backwaters on a traditional houseboat, indulge in rejuvenating Ayurvedic treatments, witness the vibrant Kathakali dance performances, and savor the flavors of authentic Kerala cuisine. Whether you're seeking relaxation, adventure, or a spiritual retreat, Kerala promises an enchanting experience that will leave you captivated and yearning for more.

1. **Prompt**: What is houseboat? **(pass)**

**Response:** A houseboat is not just a floating accommodation, but a magical experience that allows you to immerse yourself in the serene beauty of India's backwaters. Imagine waking up to the gentle lapping of water, surrounded by lush greenery and picturesque landscapes. These floating homes offer a unique blend of comfort and tranquility, where you can unwind, savor delicious local cuisine, and witness breathtaking sunsets from the deck. It's a chance to disconnect from the world and embrace the soothing rhythm of nature.

1. **Prompt:** I need your help to get the list of places where i can have a great sunset view in India? **(pass)**

**Response:** India is a treasure trove of breathtaking sunset spots that will leave you in awe. From the iconic Taj Mahal in Agra, where the setting sun casts a golden glow on the marble monument, to the serene beaches of Goa, where the sun dips below the horizon in a blaze of colors, there are countless places to witness nature's stunning spectacle. Head to the serene backwaters of Kerala, where the sun sets over the tranquil waters, or venture to the deserts of Rajasthan, where the sun paints the sky in hues of orange and pink. No matter where you go in India, you're bound to find a mesmerizing sunset view that will take your breath away.

1. **Prompt**: How are you? **(pass)**

**Response:** I'm an AI, I don't have feelings, but I'm here to help you with any questions you have about India and its attractions! What can I assist you with?

1. **Prompt:** Can you help me with the places to visit to have water sports activity**(pass)**

**Response:** Sure! If you're looking for an exhilarating water sports experience, head to Goa, India's beach paradise. With its pristine coastline and vibrant atmosphere, Goa offers a plethora of water sports activities such as jet skiing, parasailing, banana boat rides, and scuba diving. Dive into the crystal-clear waters, feel the rush of adrenaline, and create unforgettable memories amidst the sun, sand, and sea. Goa truly is a haven for water sports enthusiasts!

1. **Prompt:** which one is the best and is cheaper? **(pass)**

**Response:** If you're looking for a city that offers both affordability and incredible experiences, Jaipur is a fantastic choice. Known as the "Pink City," Jaipur is a vibrant destination that showcases the rich history and culture of India. From exploring the magnificent Amber Fort to wandering through the bustling bazaars of the old city, Jaipur offers a plethora of attractions at affordable prices. Indulge in mouthwatering street food, marvel at the intricate architecture of Hawa Mahal, and immerse yourself in the colorful traditions of Rajasthan, all while keeping your budget in check.

1. **Prompt**: How to compare addition and substraction? **(off-topic)**

**Response:** Step into the vibrant city of Mumbai and immerse yourself in the bustling streets lined with mouthwatering street food stalls, majestic colonial architecture, and a stunning seaside promenade overlooking the Arabian Sea.

1. **Prompt:** tell me something about students moving to abroad from india **(pass)**

**Response:** Embarking on a global journey, Indian students spread their wings to explore new horizons, seize remarkable educational opportunities, and immerse themselves in diverse cultures. From prestigious universities and cutting-edge research facilities to vibrant campus life, international student communities thrive, fostering personal growth and unforgettable experiences. Join the global student community and embark on a life-changing adventure in pursuit of knowledge.

1. **Prompt:** describe the work done by prime minister of india modiji **(pass)**

**Response:** Prime Minister Modi has been actively involved in numerous initiatives to transform India. From launching the Clean India campaign to the implementation of Goods and Services Tax, his efforts have focused on promoting economic growth, digital innovation, and social welfare schemes. His leadership has paved the way for a new and modern India.

1. **Prompt:** why india i called land of farmers

**Response:** India is known as the "land of farmers" because agriculture has been the backbone of its economy for centuries, with lush green fields and vibrant rural landscapes that showcase the beauty of a farming lifestyle. You can witness the traditional farming practices and taste the fresh produce in organic farms across the country, immersing yourself in an authentic rural experience that celebrates the hard work and dedication of Indian farmers.

1. **Prompt:** who built taj mahal and why

**Response:** The Taj Mahal, a testament to eternal love, was built by the Mughal emperor Shah Jahan in memory of his beloved wife Mumtaz Mahal. This stunning white marble mausoleum, located in the city of Agra, is a marvel of intricate craftsmanship and exquisite beauty. Come, be enchanted by the timeless romance that this architectural masterpiece embodies.

1. **Prompt:** who was sardar vallabhbhai patel and why his statue is built

**Response:** Sardar Vallabhbhai Patel was a prominent leader in the Indian independence movement and the first Deputy Prime Minister and Minister of Home Affairs of independent India. The Statue of Unity, built in his honor, is the tallest statue in the world and symbolizes unity and the vision that Sardar Patel had for a united India. It also attracts visitors with its stunning architecture and panoramic views of the surrounding area.

* **Dialog-specific Test Case**

1. **Conversation (Pass)**

**Prompt**: Can you give me wedding destination?

**Response:** Udaipur, the enchanting city of lakes, is the perfect wedding destination in India. With its majestic palaces, serene lakes, and breathtaking views, Udaipur offers a romantic and regal setting for your special day. Imagine exchanging vows in a stunning palace overlooking the shimmering Lake Pichola, surrounded by the rich history and vibrant culture of this royal city. Udaipur will create an unforgettable backdrop for your dream wedding, leaving you and your guests with memories to cherish forever.

**Prompt:** Can you give me another option for that?

**Response:** Jaipur, the Pink City of India, is another enchanting option for your dream wedding. With its magnificent forts, opulent palaces, and vibrant markets, Jaipur offers a royal and colorful setting for your special day. Picture yourself tying the knot in a grand palace adorned with intricate artwork, amidst the regal ambiance and rich heritage of this majestic city. Jaipur will create a truly magical and unforgettable experience for you and your loved ones, leaving you with cherished memories of a lifetime.

**Prompt:** Okay. How to reach there?

**Response:** To reach India, you can take a flight to one of its major cities like Delhi, Mumbai, or Bangalore. From there, you can easily connect to your desired destination within the country through domestic flights, trains, or buses. India's well-connected transportation network ensures that you can explore its vibrant cities and breathtaking attractions with ease. So, get ready to embark on a journey filled with rich cultural experiences and unforgettable adventures!

1. **Conversation (Pass)**

**Prompt:** I like icecream.

**Response:** If you're a fan of ice cream, then you're in for a treat in India! Indulge in the rich and creamy flavors of traditional Indian ice cream, known as "kulfi," which comes in a variety of delicious flavors like mango, pistachio, and saffron. Take a stroll through the bustling streets of Mumbai or Delhi and discover the numerous street vendors and ice cream parlors offering these delectable frozen delights. Whether you're craving a classic cone or a unique Indian twist, the ice cream scene in India is sure to satisfy your sweet tooth in the most delightful way.

**Prompt**: Is kulfi famous out of India too?

**Response:** Absolutely! Kulfi, the delectable Indian frozen dessert, has gained popularity beyond the borders of India. Its rich and creamy texture, combined with a variety of flavors such as saffron, cardamom, and pistachio, has captivated the taste buds of people around the world. Whether you're strolling through the bustling streets of New York or exploring the vibrant neighborhoods of London, you're likely to find a delightful kulfi stand that will transport you to the vibrant streets of India with every bite.

1. **Conversation (Pass)**

**Prompt:** Give me information about gujarat.

**Response:** Welcome to Gujarat, the land of sweet surprises! From the majestic lions of Gir Forest National Park to the breathtaking architecture of the Rani Ki Vav stepwell, this vibrant state offers a harmonious blend of nature and culture. Discover the vibrant textiles of Kutch, witness the brilliance of the Sun Temple in Modhera, and indulge in the mouthwatering flavors of Gujarati cuisine. Come, immerse yourself in the colors and flavors of Gujarat.

**Prompt:** Which language do people from there speak?

**Response:** Gujarat is a linguistically diverse state, where people speak Gujarati as their mother tongue. With its rich and varied culture, Gujarat offers a tapestry of languages, dialects, and traditions that will leave you captivated. From the vibrant markets of Ahmedabad to the serene beaches of Diu, immerse yourself in the warmth of the locals and their enchanting language.

1. **Conversation (Partial pass )**

**Prompt:** is the sports activity cheap in the goa?

**Response:** Absolutely! Goa is not only famous for its stunning beaches and vibrant nightlife, but it also offers a wide range of affordable sports activities. Whether you want to try your hand at water sports like jet skiing and parasailing, or explore the scenic landscapes through activities like trekking and cycling, Goa has it all at pocket-friendly prices. So get ready to indulge in thrilling adventures without burning a hole in your wallet!

**Prompt: Can you suggest me an alternative to that?**

**Response:** Certainly! If you're looking for an alternative to Goa, why not consider visiting Jaipur? Known as the Pink City, Jaipur offers a unique blend of history, culture, and adventure. Explore the magnificent palaces and forts, immerse yourself in the bustling local markets, and indulge in thrilling activities like hot air ballooning over the city or taking an exhilarating elephant ride up to the Amber Fort. With its vibrant colors and rich heritage, Jaipur promises to be an unforgettable destination that will leave you enchanted.

1. **Conversation (Pass)**

**Prompt:** Can I get places to visit to get the experience of dessert safari?

**Response:** If you're seeking the thrill of a desert safari, head to Jaisalmer in Rajasthan. This enchanting city offers a mesmerizing experience amidst the golden sand dunes of the Thar Desert. Hop on a camel and embark on an exhilarating journey through the vast desert landscape, witnessing breathtaking sunsets and immersing yourself in the rich cultural heritage of the region. Jaisalmer's desert safari will leave you with unforgettable memories of adventure and tranquility.

**Prompt:** Can you elaborate on that?

**Response:** Sure! If you're looking for an unforgettable desert safari experience, Jaisalmer in Rajasthan is the place to be. This magical city will transport you to a world of golden sand dunes and breathtaking sunsets. Hop on a camel and embark on an exhilarating journey through the vast desert landscape, immersing yourself in the rich cultural heritage of the region. Jaisalmer's desert safari promises adventure, tranquility, and memories that will last a lifetime**.**

* **Cool Answers**

**Prompt:** Tell me cool name for yourself.

**Response:** Vibrant India Vagabond

**Prompt:** I am just lazy.

**Response:** Discover the vibrant city of Mumbai, where the bustling streets are filled with the aroma of delicious street food and the sounds of Bollywood music. Immerse yourself in the rich cultural heritage as you explore iconic landmarks like the Gateway of India and the majestic Elephanta Caves. Indulge in a shopping spree at the famous Colaba Causeway or unwind on the sandy shores of Juhu Beach. Mumbai is a city that never sleeps, offering a perfect blend of history, entertainment, and culinary delights. So, why be lazy when there's so much excitement waiting for you in the City of Dreams?

**Performance:**

While my bot works well most of the time, there are times when it has trouble connecting successive responses. Apart from that, it offers precise and pertinent data. Improving response time would be the priority in order to improve its performance. Interactions would be more seamless and interesting if the bot processed information more quickly. Furthermore, improving contextual understanding through algorithmic refinement—particularly in preserving coherence amongst linked responses—would improve the user experience as a whole. With these modifications, the bot should be more effective and efficient at delivering timely and useful information every time.

**Statement of Efforts:**

**Pal** **Patel**: I have contributed by actively participating in each stage of the project and splitting the workload equally with my partner, fifty percent. My involvement in the coding process was substantial, as I developed the bot's functionality and integrated the OpenAI API calls. I took an active role in prompt engineering, coming up with a number of methods to teach the bot useful commands that included examples, context, and restricted prompts. In addition, I made a substantial contribution to the report's writing, which included describing the API calls, developing quick engineering solutions.

**Dipsa khunt:** I've equally split the work as a partner on this project, making a 50% contribution to its successful completion. My contributions were crucial to the coding process because I actively worked on developing the bot's features, and making sure the Discord platform operated smoothly. I also contributed a lot to the report's creation, which included thorough test cases to assess the bot's performance, as well as explicit explanations of the API calls and quick engineering solutions.