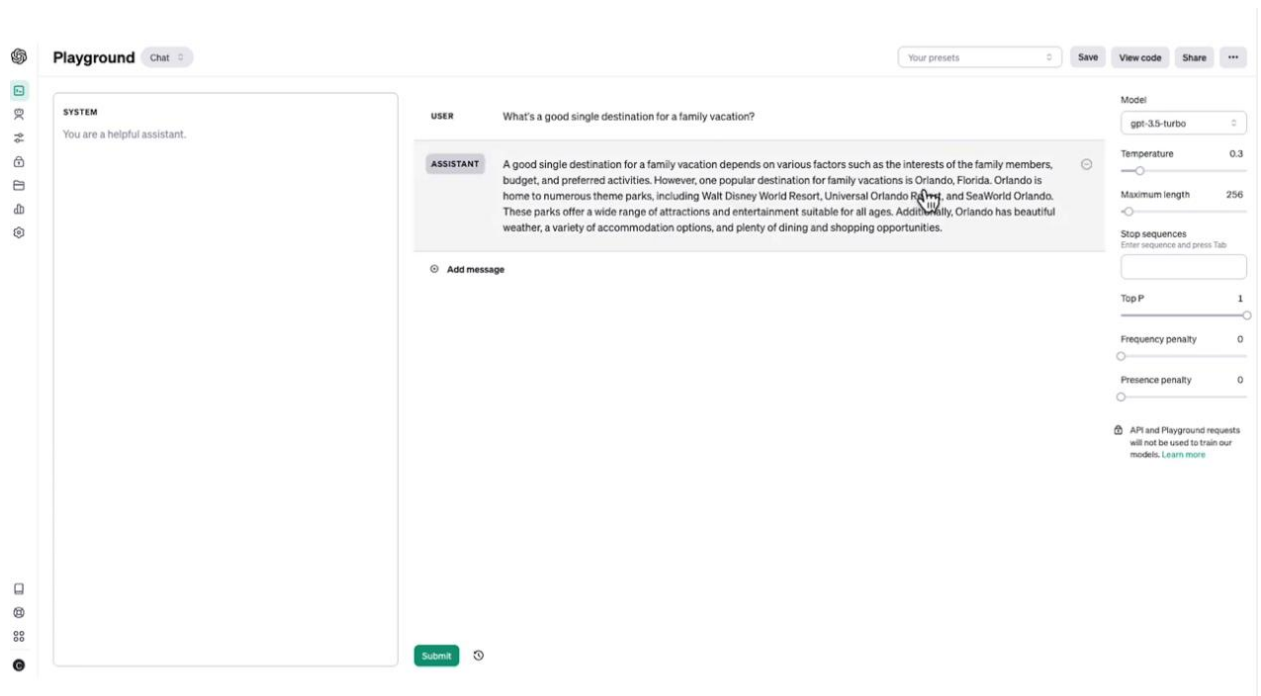**Sampling Hyperparameters**

2 min

Key Concepts

- **Temperature**: A hyperparameter that adjusts the randomness in AI responses, acting like a creativity dial.

    o **Low Temperature**: Results in more conservative, predictable responses; akin to a cautious conversation partner.

    o **High Temperature**: Leads to more diverse, creative outputs, like a spontaneous and unpredictable conversationalist.

- **Top P (Nucleus Sampling)**: Another hyperparameter that manages model randomness by limiting the word pool based on probability.

    o **Low Top P**: Makes the model choose from a narrower set of words, leading to more predictable text.

    o **High Top P**: Expands the pool of potential words, allowing for varied and unexpected responses.

- **Control Over Output**: Temperature and Top P provide control over the tone and creativity of ChatGPT's responses.

- **Tailored AI Responses**: By fine-tuning hyperparameters, users can tailor responses to fit specific needs and objectives, balancing relevance with desired creativity and information type.

Temperature:

SYSTEM

You are a helpful assistant.

USER   What's a good single destination for a family vacation?

ASSISTANT   A good single destination for a family vacation depends on various factors such as the interests of the family members, budget, and preferred activities. However, one popular destination for family vacations is Orlando, Florida. Orlando is home to numerous theme parks, including Walt Disney World Resort, Universal Orlando Resort, and SeaWorld Orlando. These parks offer a wide range of attractions and entertainment suitable for all ages. Additionally, Orlando has beautiful weather, a variety of accommodation options, and plenty of dining and shopping opportunities.

USER   What's a good single destination for a family vacation?

ASSISTANT   Another good single destination for a family vacation is Maui, Hawaii. This tropical paradise offers something for everyone, from stunning beaches and outdoor activities to cultural experiences and scenic beauty. Families can enjoy snorkeling, surfing, hiking, and other adventurous activities. Places like Haleakalā National Park and the Road to Hana provide breathtaking landscapes and unforgettable exploration options. There are also family-friendly resorts and restaurants that cater to all ages. Overall, Maui offers a combination of relaxation, adventure, and natural wonders that make it a great choice for a family vacation.

⊕ **Add message**

Submit ⟳   ⚑ Give us feedback

Model
gpt-3.5-turbo

Temperature   1.4

Maximum length   256

Stop sequences
Enter sequence and press Tab

Top P   1

Frequency penalty   0

Presence penalty   0

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Top P:

SYSTEM

You are a helpful assistant.

USER   Can you give me some tips for beginner gardeners?

ASSISTANT   Certainly! Here are some tips for beginner gardeners:

1. Start small: Begin with a small garden or a few pots to manage, as it can be overwhelming to take care of a large space initially.

2. Choose the right location: Ensure your garden receives adequate sunlight (at least 6 hours a day) and has access to water. Consider the soil quality and drainage as well.

3. Plan your garden: Decide what you want to grow based on your preferences, available space, and climate. Research the specific requirements of each plant, such as sunlight, water, and soil conditions.

4. Prepare the soil: Clear the area of weeds, rocks, and debris. Loosen the soil with a garden fork or tiller, and add organic matter like compost or well-rotted manure to improve its fertility.

5. Start with easy-to-grow plants: Choose plants that are known to be beginner-friendly, such as herbs (like basil and mint), salad greens (like lettuce and spinach), or easy vegetables (like tomatoes and zucchini).

6. Water properly: Water your plants deeply but infrequently, allowing the soil to dry out slightly between waterings. Avoid overwatering, as it can lead to root rot or other issues.

7. Mul

⊕ **Add message**

Submit ⟳   ⚑ Give us feedback

Controls randomness: Lowering results in less random completions. As the temperature approaches zero, the model will become deterministic and repetitive.

Model
gpt-3.5-turbo

Temperature   1

Maximum length   256

Stop sequences
Enter sequence and press Tab

Top P   0.5

Frequency penalty   0

Presence penalty   0

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SYSTEM

You are a helpful assistant.

6. Water properly: Water your plants deeply but infrequently, allowing the soil to dry out slightly between waterings. Avoid overwatering, as it can lead to root rot or other issues.

7. Mul

USER   Can you give me some tips for beginner gardeners?

ASSISTANT   Certainly! Here are some tips for beginner gardeners:

1. Start with the right plants: Choose plants that are suitable for your climate and growing conditions. Opt for varieties labeled as "easy to grow" or "beginner-friendly" to increase your chances of success.

2. Plan your garden layout: Consider the space you have available and the amount of sunlight different areas receive. Group plants with similar water and sunlight needs together for easier maintenance.

3. Prepare the soil: Ensure your soil is healthy and fertile by adding compost or organic matter before planting. This will provide essential nutrients and improve drainage.

4. Understand watering needs: Different plants have varying water requirements. Learn about the watering needs of each plant and water them accordingly. Overwatering can be as detrimental as under watering.

5. Weed regularly: Weeds compete with plants for nutrients and resources. Make it a habit to remove weeds regularly to prevent them from taking over your garden.

6. Monitor pests and diseases: Keep an eye out for common garden pests and diseases. Early detection allows for prompt action, which can help prevent severe damage to your plants.

7. Mulch your garden: Applying a layer of mulch around your plants helps retain moisture, suppress weeds, and regulate soil temperature. It also adds organic

⊕ Add message

Submit   ⟳   ⚐ Give us feedback

Model
gpt-3.5-turbo ⌄

Temperature   1
───────────●────

Maximum length   256
─●───────────────

Stop sequences
Enter sequence and press Tab

Top P   0.9
──────────────●──

Frequency penalty   0
●────────────────

Presence penalty   0
●────────────────

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