# Unity DeepSeek API Integration



Figure 1: DeepSeek Unity Integration

A lightweight, easy-to-use integration of the DeepSeek AI API for Unity projects. This package allows Unity developers to quickly implement AI-powered chat capabilities using DeepSeek's powerful language models.

### **Features**

- Easy integration with DeepSeek API in Unity projects
- Support for both streaming and non-streaming chat completions
- Compatible with multiple DeepSeek models (DeepSeek Chat, DeepSeek Reasoner)
- Ready-to-use UI components for chat interactions
- Customizable API settings through the Unity Inspector
- Works on all platforms supported by Unity

## Requirements

- Unity 2020.3 LTS or newer
- TextMeshPro package (included in newer Unity versions)
- DeepSeek API key (obtain from DeepSeek's website)

#### Installation

#### Option 1: Unity Package Manager (Git URL)

1. Open your Unity project

- 2. Go to Window > Package Manager
- 3. Click the "+" button in the top-left corner
- 4. Select "Add package from git URL..."
- 5. Enter the repository URL: https://github.com/yagizeraslan/DeepSeek-Unity.git
- 6. Click "Add"

#### **Option 2: Manual Installation**

- 1. Download or clone this repository
- 2. Copy the DeepSeek folder into your Unity project's Assets folder

#### Option 3: Unity Asset Store

- 1. Open the Unity Asset Store in your browser or through Unity
- 2. Search for "DeepSeek API Integration"
- 3. Purchase or download the package
- 4. Import the package into your project

## **Quick Start**

- 1. Add the DeepSeekChat prefab to your scene
- 2. Enter your DeepSeek API key in the Inspector
- 3. Customize the chat appearance and behavior through the Inspector
- 4. Press Play to start testing

# Example Usage

## **Basic Chat Implementation**

```
using UnityEngine;
using DeepSeek;

public class DeepSeekExample : MonoBehaviour
{
    [SerializeField] private string apiKey = "YOUR-API-KEY";
    private DeepSeekApi deepSeekApi;

    private void Start()
    {
        // Initialize the API
        deepSeekApi = new DeepSeekApi(apiKey);

        // Send a simple request
        SendSimpleMessage();
    }

    private async void SendSimpleMessage()
```

```
var request = new ChatCompletionRequest
            Model = DeepSeekModel.DeepSeekV3.ToModelString(),
            Messages = new System.Collections.Generic.List<ChatMessage>
                new ChatMessage { Role = "system", Content = "You are a helpful assistant."
                new ChatMessage { Role = "user", Content = "Hello, who are you?" }
            },
            Temperature = 0.7f,
            Stream = false
        };
        var response = await deepSeekApi.CreateChatCompletion(request);
        if (response != null && response.Choices != null && response.Choices.Count > 0)
        {
            Debug.Log("DeepSeek Response: " + response.Choices[0].Message.Content);
    }
}
Streaming Response Example
private async void SendStreamingMessage()
    var request = new ChatCompletionRequest
       Model = DeepSeekModel.DeepSeekV3.ToModelString(),
       Messages = new System.Collections.Generic.List<ChatMessage>
            new ChatMessage { Role = "system", Content = "You are a helpful assistant." },
            new ChatMessage { Role = "user", Content = "Write a short story about a robot."
        },
        Temperature = 0.7f,
        Stream = true
    };
    await deepSeekApi.CreateChatCompletionStreaming(request, HandleStreamingResponse);
}
private void HandleStreamingResponse(ChatMessage partialMessage, bool isDone)
    // Update UI with partial response
    Debug.Log("Partial response: " + partialMessage.Content);
```

```
if (isDone)
{
    Debug.Log("Streaming complete!");
}
```

## **Advanced Configuration**

### **Available Models**

The integration supports multiple DeepSeek models:

```
// Use DeepSeek Chat
var model = DeepSeekModel.DeepSeekV3;
// Use DeepSeek Reasoner
var model = DeepSeekModel.DeepSeekR1;
```

### Customizing Chat UI

You can customize the appearance of the chat interface by modifying the prefab or the UI components in your scene:

- 1. Select the DeepSeekChat GameObject in your scene
- 2. Modify properties in the Inspector:
  - Chat scroll view height and width
  - Message bubble appearance
  - Input field size and position
  - Font styles and colors

## Troubleshooting

#### Common Issues

API Key Not Working - Ensure your API key is correctly entered in the Inspector - Check DeepSeek's website to verify your API key is active

**Slow Response Times** - Consider using the streaming API for faster perceived response times - Check your network connection

**Error Messages** - "API Key is required" - Ensure you've added your API key in the Inspector - "Request failed" - Check your internet connection and API key validity

#### License

This project is licensed under the MIT License - see the LICENSE file for details.

# Acknowledgements

• DeepSeek for their powerful AI models

# Contact

• Name: Yağız ERASLAN

- Email: yagizeraslan@gmail.com

• LinkedIn: https://www.linkedin.com/in/yagizeraslan/

If you have any questions, suggestions, or issues, please feel free to contact me or open an issue on GitHub.