DeepChat

User Manual

Usage, and Troubleshooting Guide

Made by Team 12:

Zihong Luo, Qiaoyang Bi, Tianyu Zhu, Sijin Wu, Pengyu Lu, Dawei Wang

Content

1. Getting Started

DeepChat can be accessed through both the web version and the local installation. Both versions require an initial setup using the provided installation package. After installation, users can access DeepChat via different methods:

Web Version (Recommended)

Visit: https://mynamedeepchat.xyz

No need to start a local database server.

Always synchronized with the latest front-end updates from the system.

Local Installation

Follow the instructions provided in **deepchat_access.pdf** to install locally.
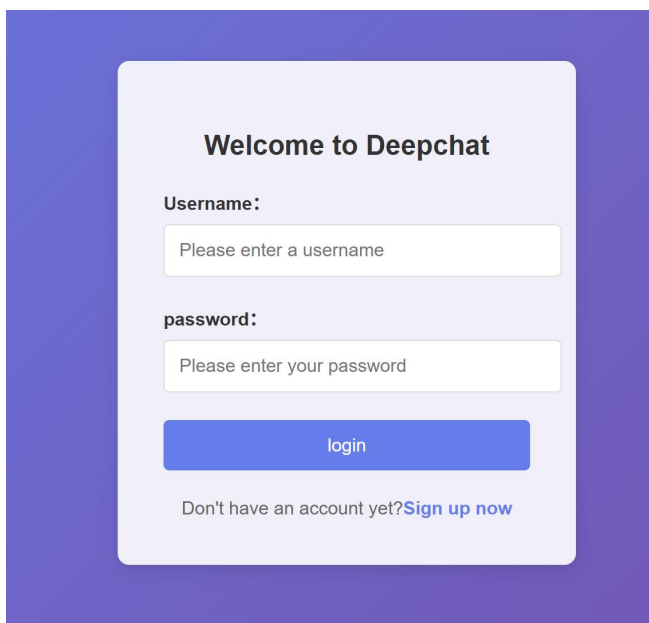
Access DeepChat by opening: http://localhost:8001/Main/Chat_Interface.php

No need to manually launch a database

2. Account Registration and Login
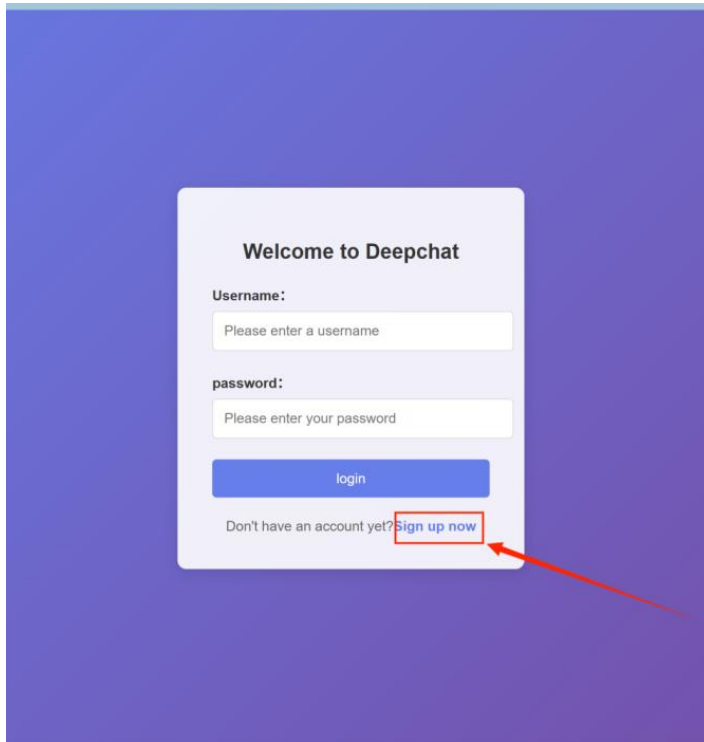
Step 1: Enter login page

Visit: https://mynamedeepchat.com

Step 2: Click "Sign Up Now"

Step 3: Fill registration form

- Username

- Age

- Gender

- Email

- Password

- Confirm Password

- CAPTCHA image refreshable

User Register

Username:	Enter your username ← Enter Username at here
Age:	Must ← Enter Age at here
Gender:	-- Select Gender -- ← Select gender at here (Male, Female, other)
Email:	Must ← Enter email at here
Password:	6-18 letters or numbers ← Enter Password at here
Confirm Password:	Re-enter your password ← Enter Password again

Verification Code:

Enter the code   **LMBAW** (Click image to refresh)   ←   Enter code throughout picture

☐ I'm not a robot   reCAPTCHA Privacy - Terms   ←   Finish human-robot test

Submit   Reset   Back

Step 4: Login

- After registration, enter username and password

Welcome to Deepchat

Username:

Please enter a username   ←   1.Enter username at here

password:

Please enter your password   ←   2.Enter password at here

login   ←   3.Click the button login system

Don't have an account yet?**Sign up now**

Step 5: Log in successfully

Now you can view the main page of deepchat

3. Basic Usage

Start Chatting

- Type in input box

- Press Enter or click Send

Upload Files

- Click Upload or drag and drop

- Supported formats: PDF, TXT, MD, CSV

- Max size: 10MB

English ▾

🔍 Search conversations…

➕ New Chat

--- Page 1 --- Lecture 11 --... 🗑

hello 🗑

📄 Clear Chat

📁 Upload File

💬 Morethink
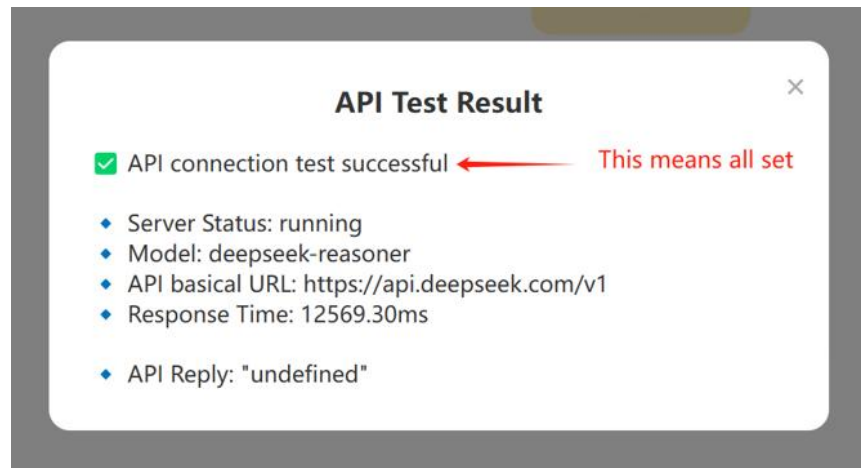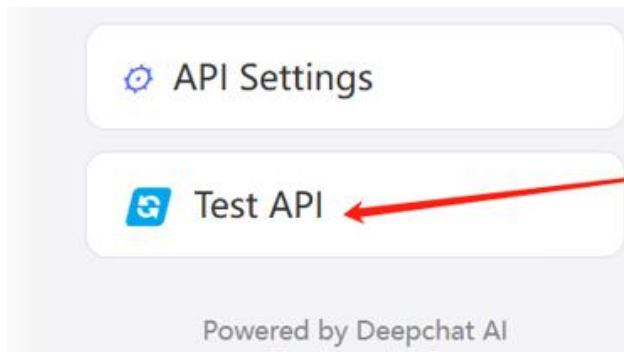
⚙ API Settings

🔷 Test API

Powered by Deepchat AI
Version v1.0.0

🔋 Logout

Extract text in your pdf

mwide--/atexit>Conditional probabilitySecond step
--- Page 36 ---
Linear classification: logistic regression •Find   that minimises
Logistic regression: MLE (maximum likelihood estimation) with sigmoidWhy log function used? To avoid numerical instability.unfold
Increase this one to make it as close as possible to 1Decrease this one to make it as close as possible to 0Third step
--- Page 37 ---
Linear classification: logistic regression •Given training data   i.i.d. from distribution $\mathcal{D}$•Find w that minimises
No close form solution; Need to use gradient descent, which will be introduced in the next lecture Achieved
--- Page 38 ---
Why sigmoid function?

--- Page 39 ---
Exercises
•Given the dataset and consider the mean square root error, if we have the following two linear functions:•fw(x) = 2x1 + 1x2 + 20x3 - 330•fw(x) = 1x1 - 2x2 + 23x3 – 332   please answer the following questions:•(1) which model is better for linear regression? •(2) which model is better for linear classification   by considering 0-1 loss for yT=(0,1,1,0)? •(3) which model is better for logistic regression for yT=(0,1,1,0)? •(4) According to the logistic regression of the first model, what is the prediction result of the first model on a new input (181,92,12.4). x1x2x3y1828711.33251899212.33441787910.63501839012.7320Check the exercises of the lecture notesfor answer.

Click button to quick generating questions

| Overall Summary | Extract Table of Contents | Extract Key Points | Generate Multiple-Choice Questions | Pros & Cons Analysis | Expand Further |

Drag & drop files here or click to upload (PDF/Text, max 10MB)

Type your message…   💡 Ⓖ   Send

| Regenerate | Copy Response | Clear Input |

•(2) which model is better for linear classification   by considering 0-1 loss for yT=(0,1,1,0)? •(3) which model is better for logistic regression for yT=(0,1,1,0)? •(4) According to the logistic regression of the first model, what is the prediction result of the first model on a new input (181,92,12.4). x1x2x3y1828711.33251899212.33441787910.63501839012.7320Check the exercises of the lecture notesfor answer.

Overall Summary

Overall Summary of Lecture 11: Linear and Logistic Regression

Key Concepts Covered
1. **Inductive Bias**
   - Defines assumptions a learning algorithm uses to generalize to unseen data.
   - **Hypothesis space bias**: Restricts models to a specific class (e.g., linear functions).
   - **Preference bias**: Prioritizes certain models within the hypothesis space (e.g., simpler models).
   - Examples: Decision trees favor axis-aligned splits; k-NN assumes local similarity.

2. **Linear Regression**
   - **Goal**: Find parameters **w** that minimize the **mean squared error (MSE)** between predictions and true labels.
   - Loss function: $\mathcal{L}(w) = \frac{1}{n}\sum_{i=1}^n (w^T x^{(i)} - y^{(i)})^2$.
   - Matrix form: $\mathcal{L}(w) = \|Xw - y\|_2^2$, solved via optimization (e.g., gradient descent).
   - **Bias term**: Incorporated by appending a constant feature (e.g., 1) to input vectors.

| Overall Summary | Extract Table of Contents | Extract Key Points | Generate Multiple-Choice Questions | Pros & Cons Analysis | Expand Further |

Drag & drop files here or click to upload (PDF/Text, max 10MB)

Type your message…   💡 Ⓖ   Send

| Regenerate | Copy Response | Clear Input |

Could also make a overall summary with pdf(eg: question about Linear Regression)

7

4. Advanced Features

API Settings

- Navigate to API Settings

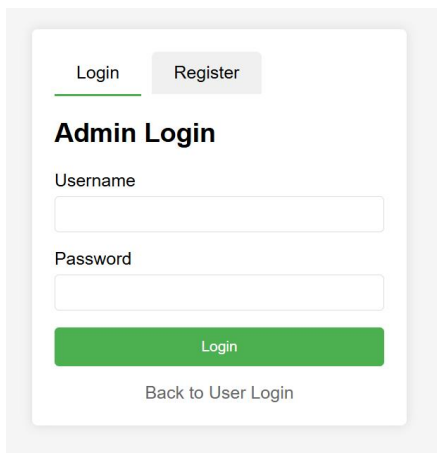- Input API Key

- Click Test API

5. Administrator Features
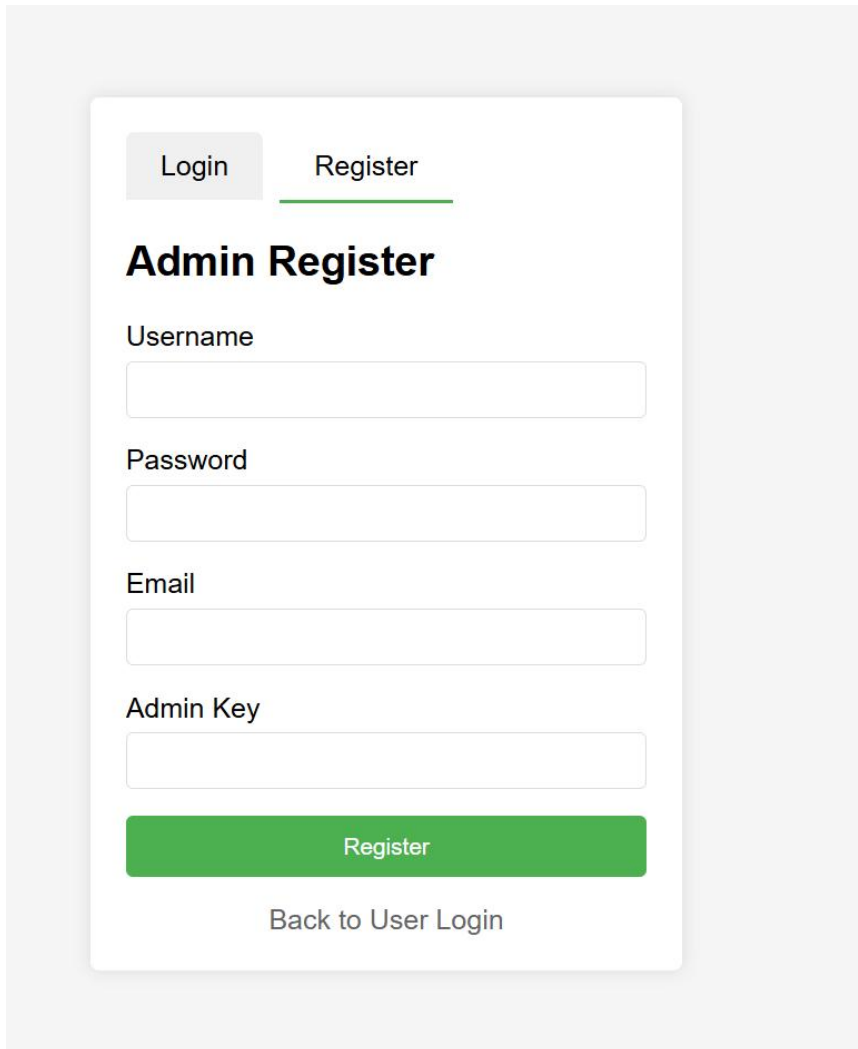
Admin Registration and Login

Administrators can log in using their username and password.
To register as an administrator, users must provide a valid Admin Key, which can only be obtained from an existing administrator.

Admin Login Page:
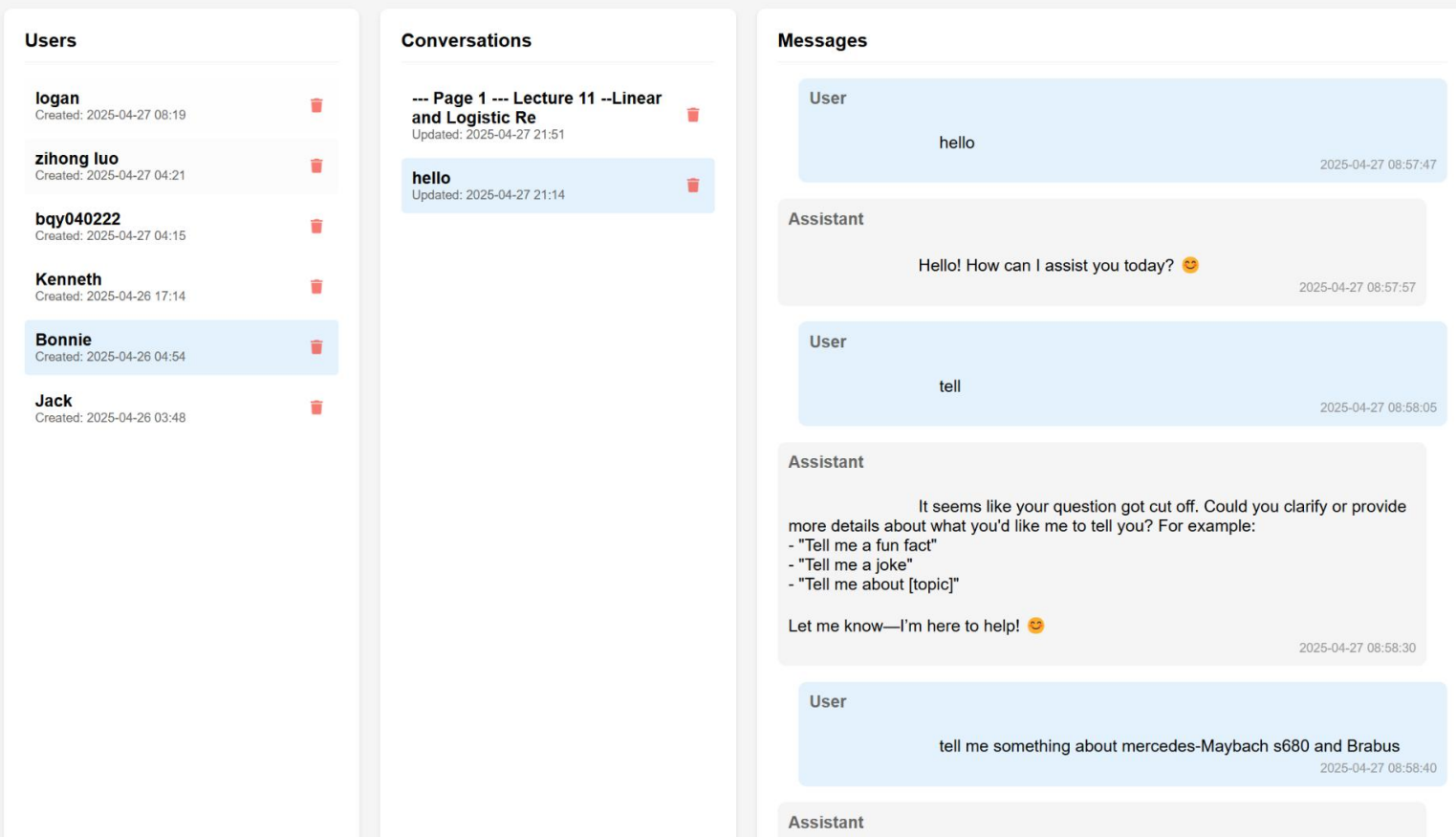
Admin Registration Page:

Admin Dashboard

After logging in, administrators can view a list of all registered users and their corresponding conversation records.
Administrators have the ability to:
- View all user conversations.
- Delete specific conversations.
- Delete specific users.

Admin Dashboard Interface:

This functionality ensures that administrators have full control over user management and conversation moderation within the system.

6. Troubleshooting

Connection Issues

- Check internet

- Refresh page

- Clear browser cache

Upload Issues

- Check file size and format

7. Best Practices

Optimal Usage

- Use modern browsers

- Keep browser updated

Security Tips

- Don't share sensitive info

- Log out on public computers

8. System Requirements

Minimum

- OS: Windows 10+, macOS 10.15+, Linux

- Browser: Latest Chrome, Firefox, Safari, Edge

- Internet: Stable broadband

- Resolution: 1280x720+

Recommended

- OS: Latest Windows/macOS/Linux

- Browser: Latest Chrome or Firefox

- Internet: High-speed

- Resolution: 1920x1080+