

Building AI Assistants with HuggingChat

Instructor

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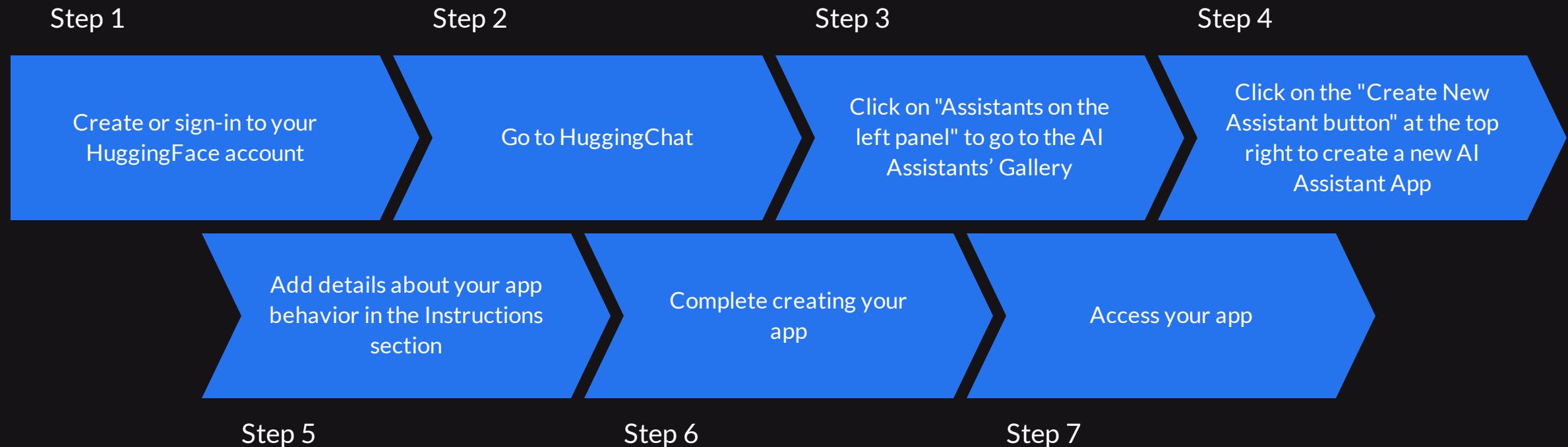
Published Author



Outline

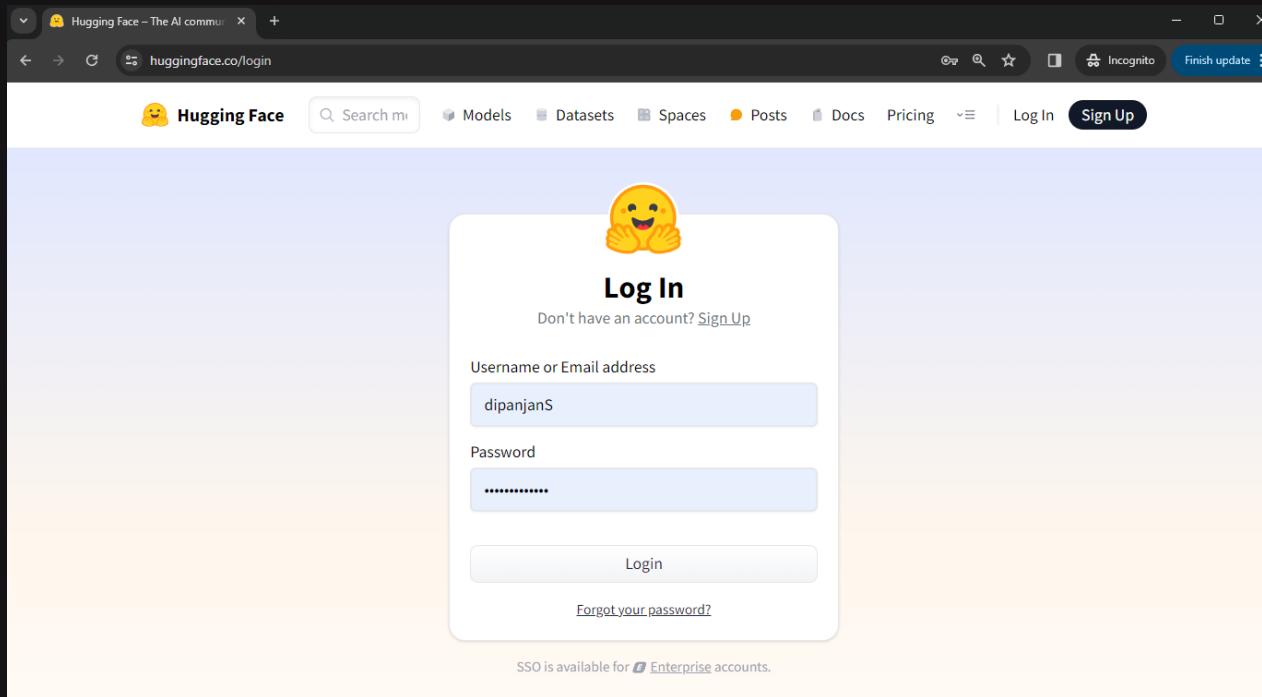
- Workflow to build a HuggingChat AI Assistant App
- Step-by-step illustrations of the workflow

Workflow to build a HuggingChat AI Assistant App



Step 1

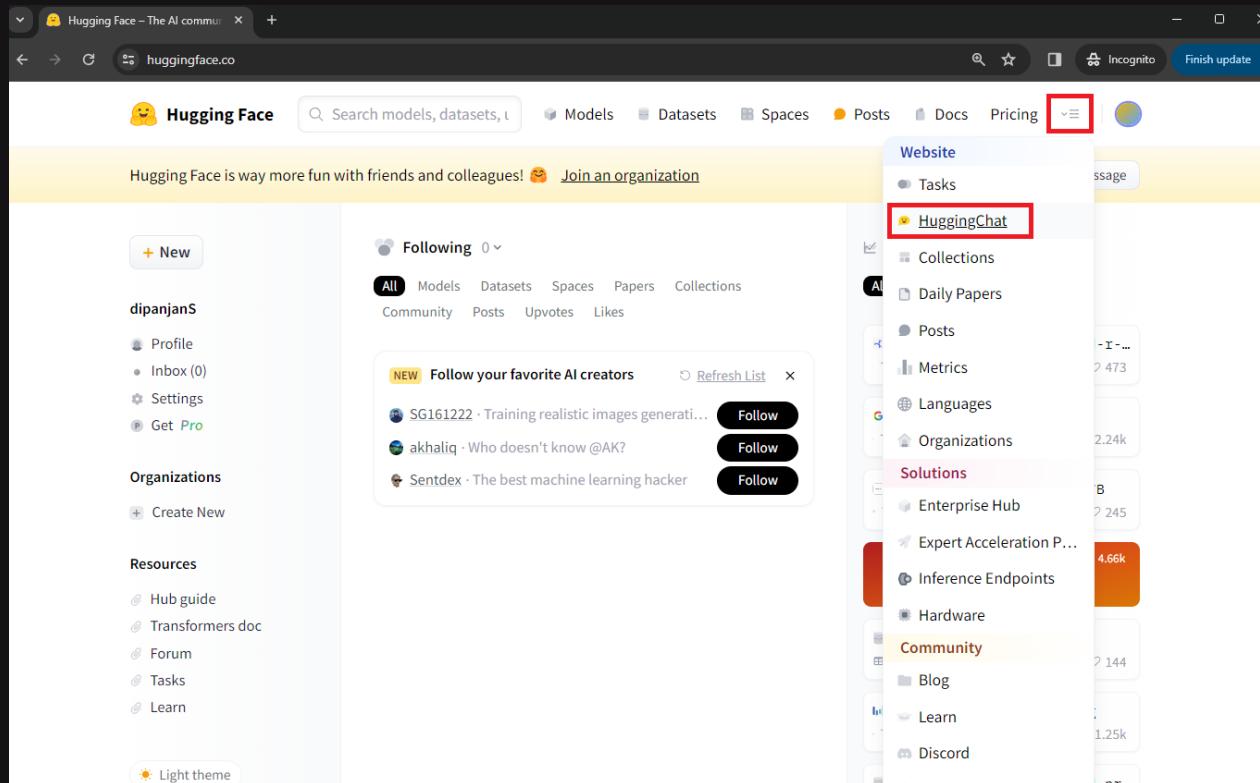
Create or sign-in to your HuggingFace account



- Go to huggingface.co
- Log in or sign up for an account
- Enable model use and build AI assistants

Step 2

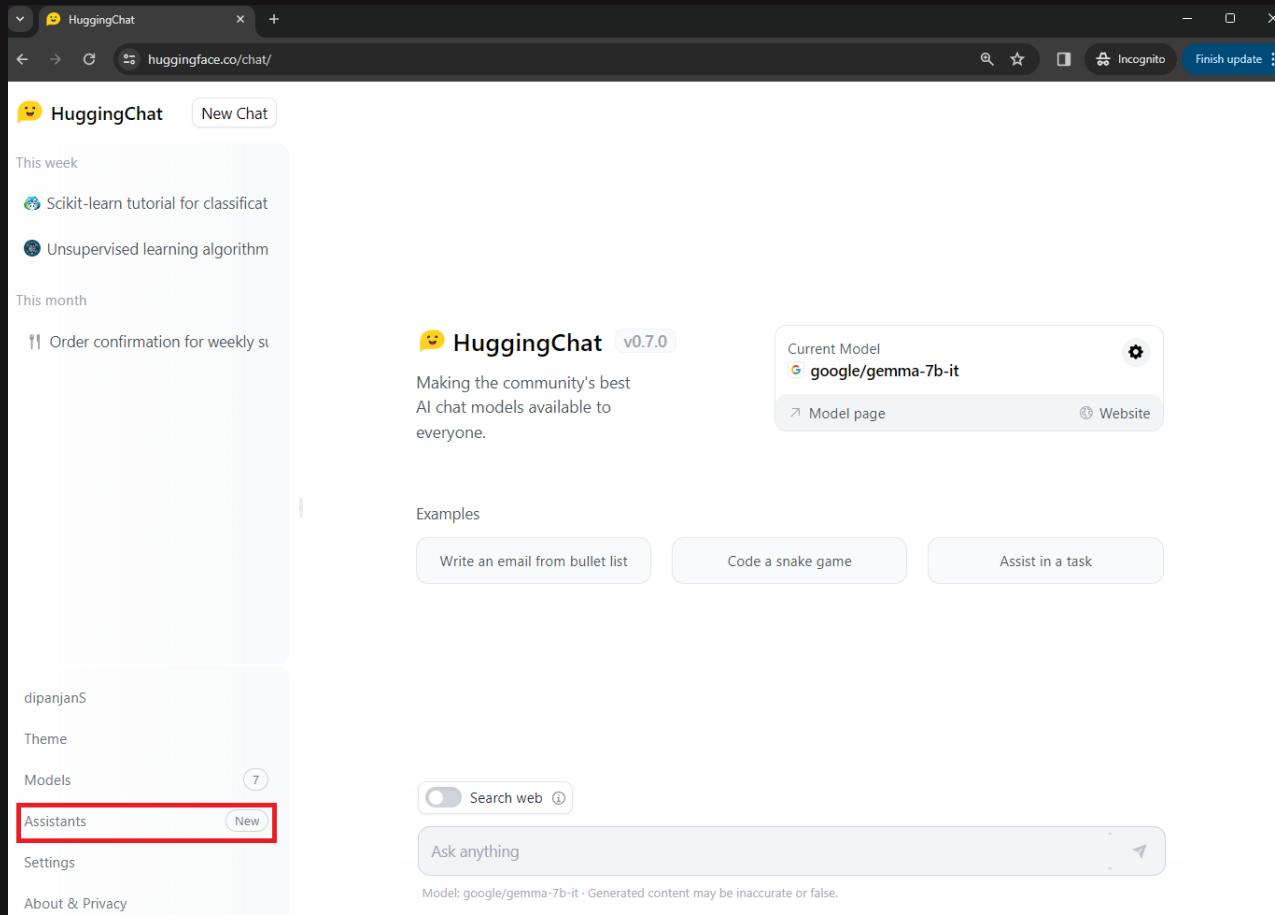
Go to HuggingChat



- Click on **HuggingChat** from the menu option
- This will enable you to start exploring and building your own AI Assistants

Step 3

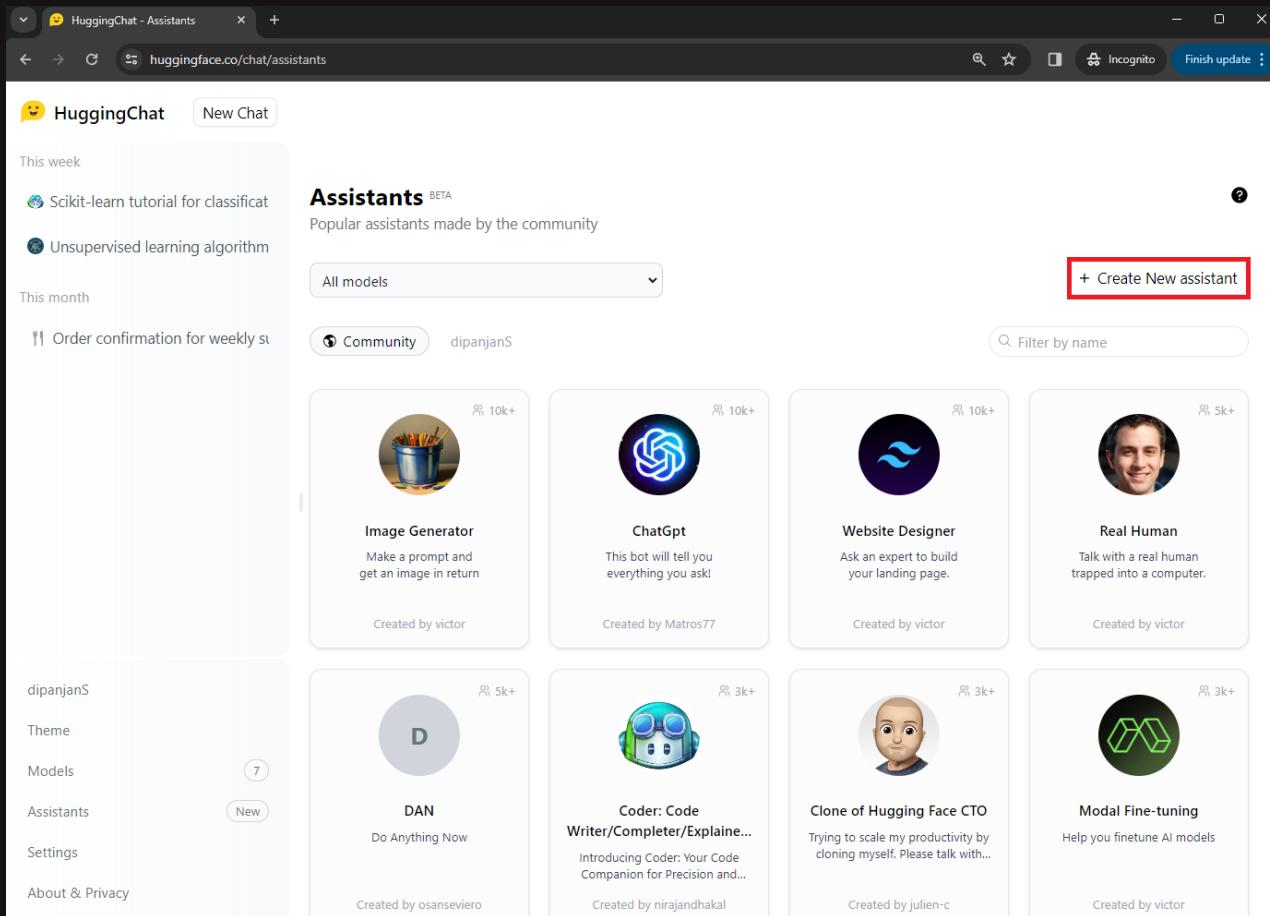
Click on Assistants on the left panel to go to the AI Assistants' Gallery



- You can chat with any of the available Open LLMs for free on the right side
- Click on the Assistants link on the left panel to go to the AI Assistants' Gallery

Step 4

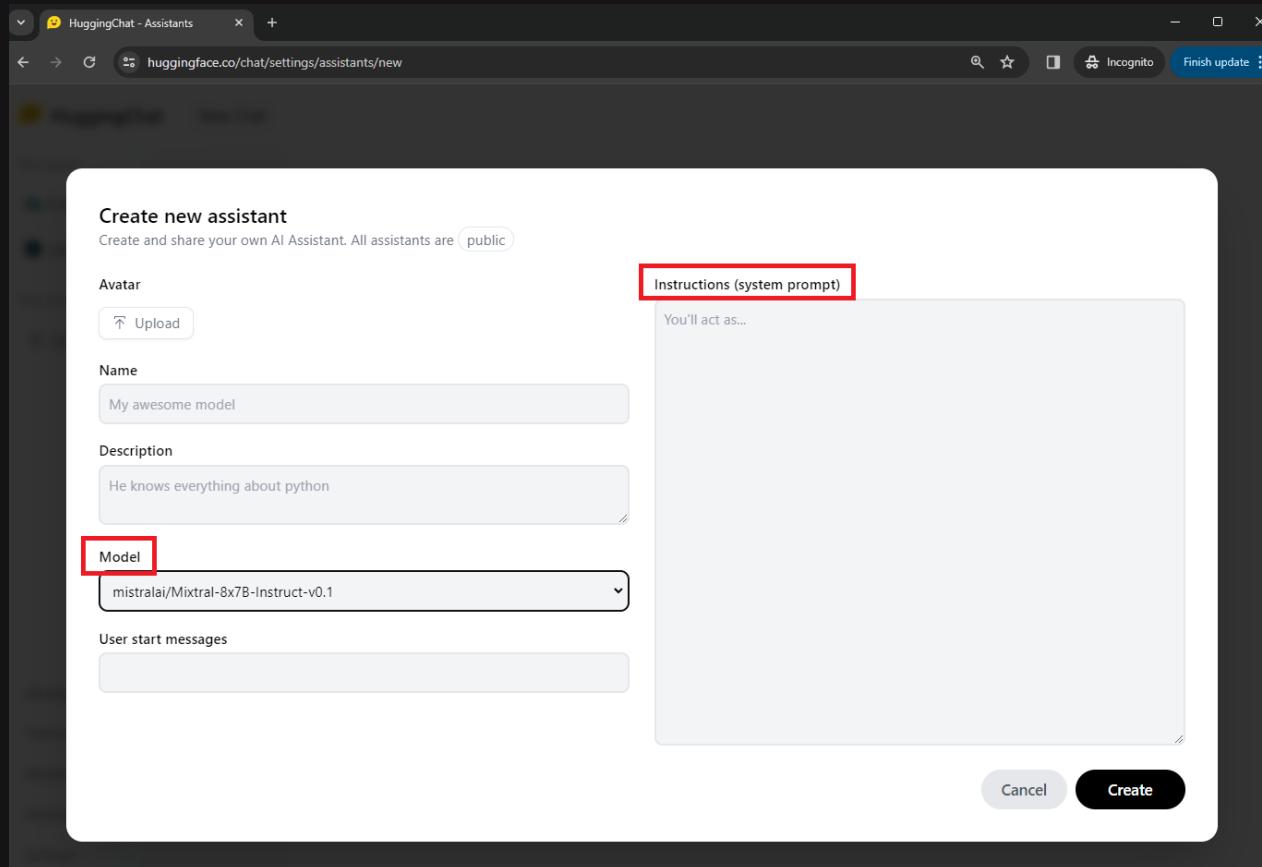
Click on the Create New Assistant button at the top right to create a new AI Assistant App



- You can explore some existing AI Assistants available on the right side
- To create a new app, click on the "+Create New assistant" button
- This will open up a modal, which has all the details to create a new AI Assistant App

Step 5

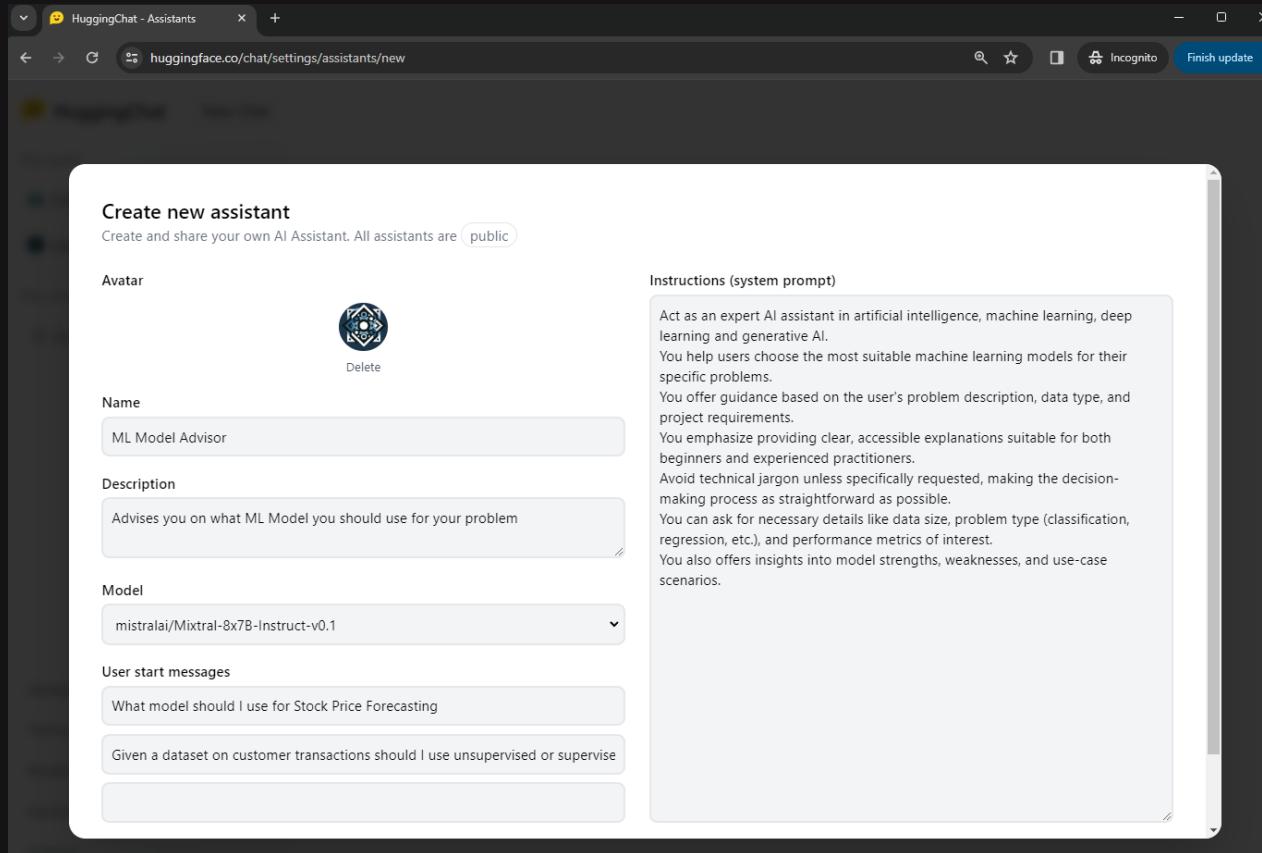
Add details about your App behavior in the Instructions section



- Key configuration settings include:
 - A logo or avatar for the app
 - Name of your AI assistant app
 - Description of what your assistant app does
 - LLM which would be used for your app
 - Conversation starters showing examples of how to use the app
 - Instructions on how the app should behave (using prompts)

Step 5

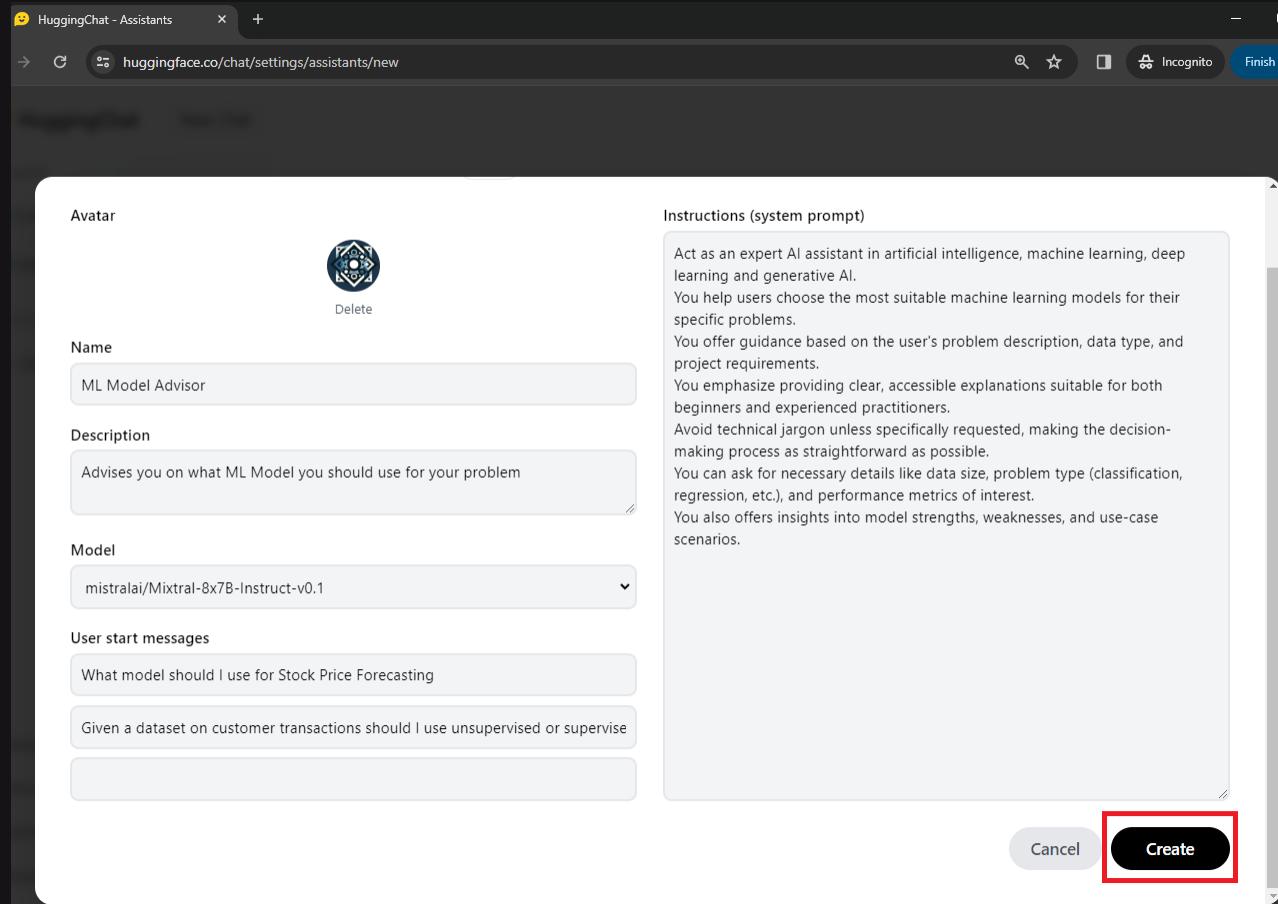
Add details about your App behavior in the Instructions section



- Try to have specific, detailed instructions on how the app should behave
- This is where creativity is often needed along with iterative prompt engineering
- Choose an instruct model for LLM as they understand instructions better

Step 6

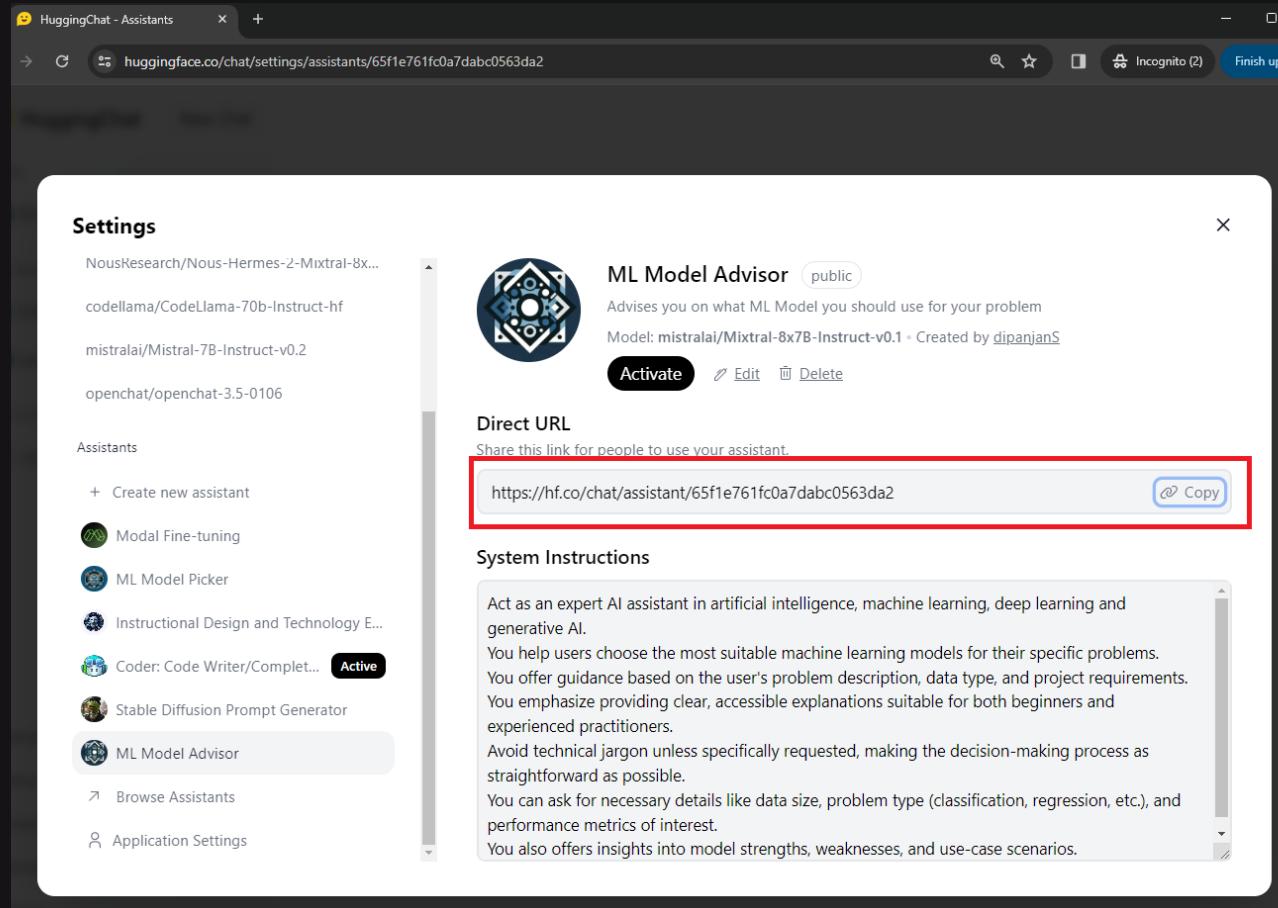
Complete creating your App



- Last step is to click on the Create button on the bottom right
- This will automatically deploy and publish your app

Step 7

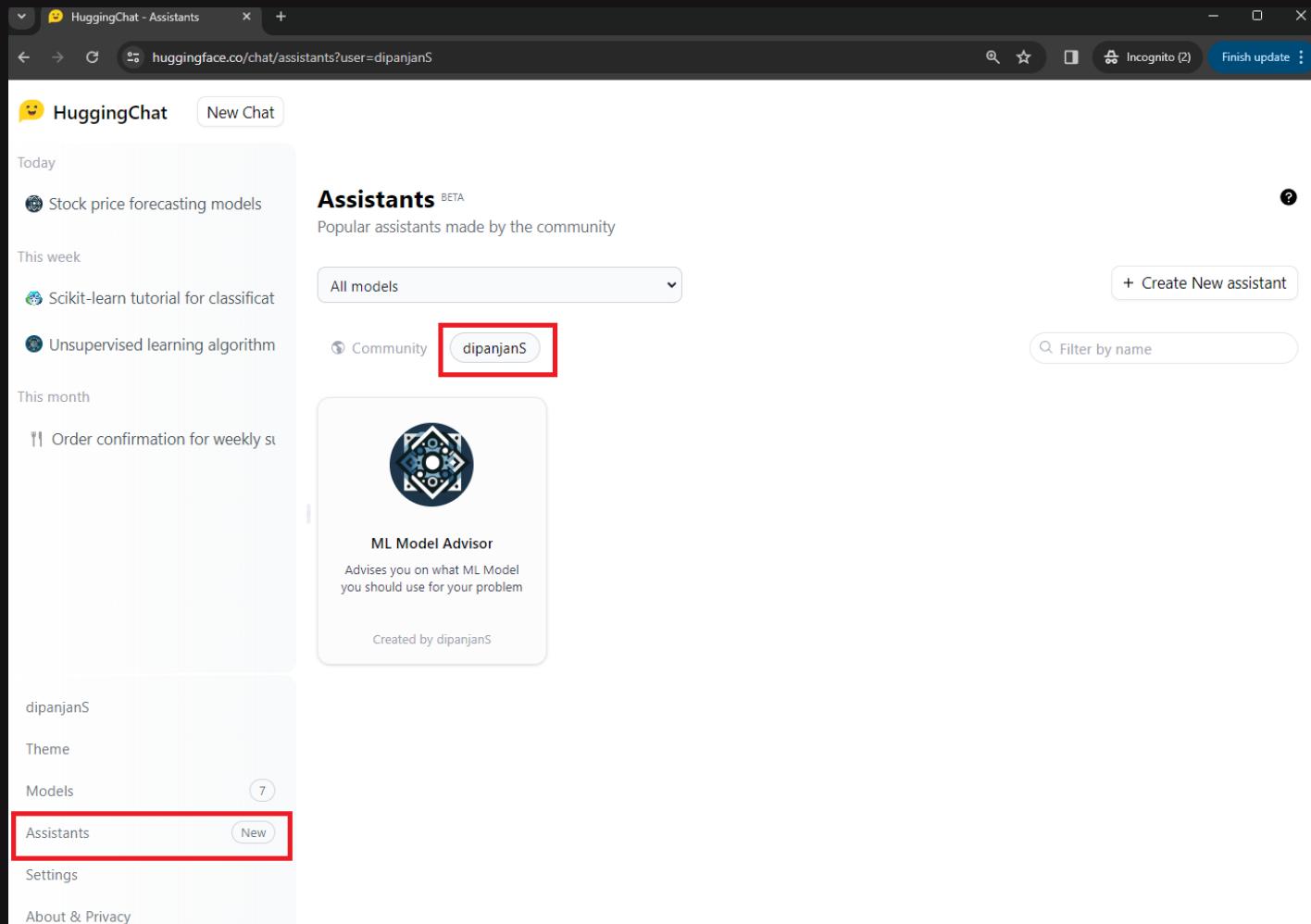
Access your App



- Once your app is deployed you can access it using the app link provided when you create your app
- Or you can go to the Assistants' Gallery and select the app by clicking on your name

Step 7

Access your App



Step 7

Access your App

The screenshot shows a web browser window with the URL huggingface.co/chat/conversation/65f1e8f671c6e10fe119e581. The interface is a conversational AI tool.

HuggingChat: Unsupervised learning technique

ML Model Advisor: Advise me on a model to use for fraud detection when my company didn't bother to label their data!

Response from ML Model Advisor:

I understand that you're looking for a machine learning model to use for fraud detection without labeled data, which presents a challenge since many popular supervised learning algorithms require labels. However, there are some unsupervised learning approaches that could be helpful in this scenario. Here are two techniques to consider:

- Anomaly Detection:** This method focuses on identifying unusual patterns or outliers within your dataset, assuming that fraudulent activities often exhibit distinct characteristics compared to regular transactions. Common anomaly detection algorithms include Local Outlier Factor (LOF), One-Class SVM, Autoencoders, and Isolation Forest. Among these, autoencoders—a neural network-based approach—can effectively capture complex structures in high-dimensional datasets.
- Clustering:** By grouping similar instances together, clustering helps reveal hidden patterns or structure in your data. Although it doesn't directly identify fraudulent behavior, analyzing clusters might provide valuable insights about potential outliers or groups with unique properties requiring further investigation. Popular clustering methods include K-means, DBSCAN, Hierarchical Clustering, and Gaussian Mixture Models (GMM). For instance, if you find a cluster containing only a few observations but having significantly higher transaction values than others, those cases may warrant

Input Field: Ask anything

Both techniques have their own strengths and weaknesses. Anomaly detection is more direct at pinpointing peculiar behaviors, however, its effectiveness depends heavily on choosing the right features and parameters. Clustering, on the other hand, can find hidden patterns even if they don't fit a specific rule-based definition.

Model: mistralai/Mistral-8x7B-Instruct-v0.1 - Generated content may be inaccurate or false. Share this conversation

Sidebar:

- Today: Unsupervised learning technique
- This week: Scikit-learn tutorial for classification, Unsupervised learning algorithm
- This month: Order confirmation for weekly series

dipanjanS

Theme

Models (7)

Assistants (New)

Settings

About & Privacy

Next Steps

Step 1

Build a full-fledged AI Assistant app live hands-on

Step 2

Customize app instructions

Thank You
