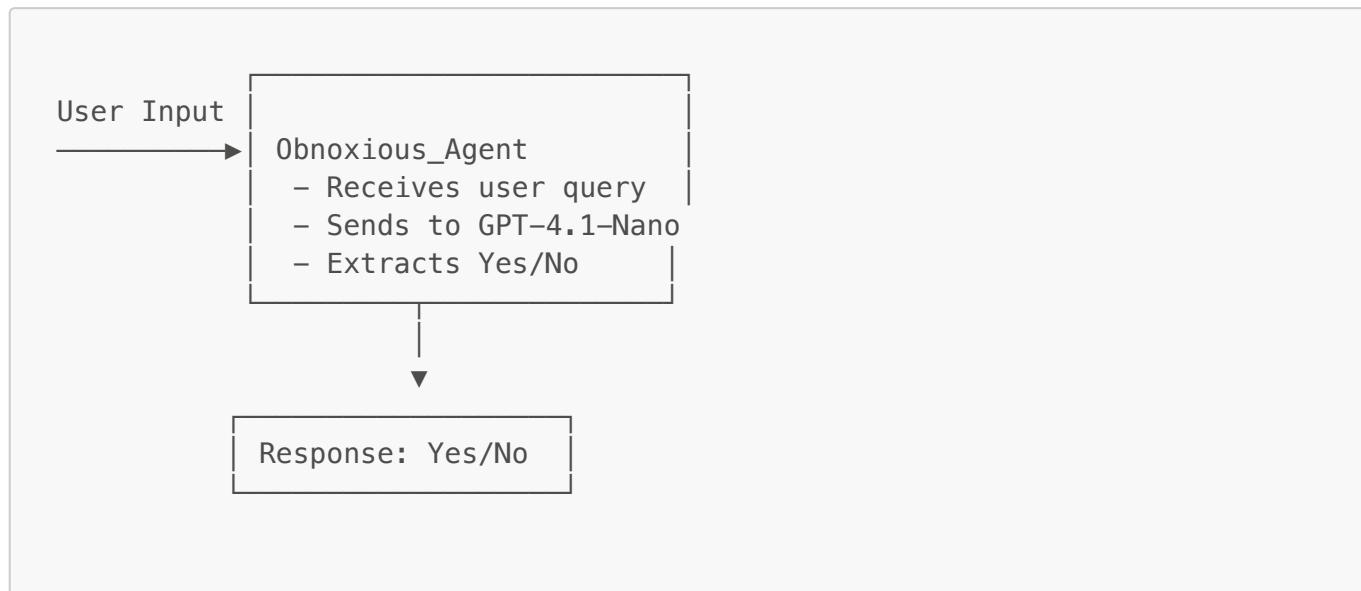


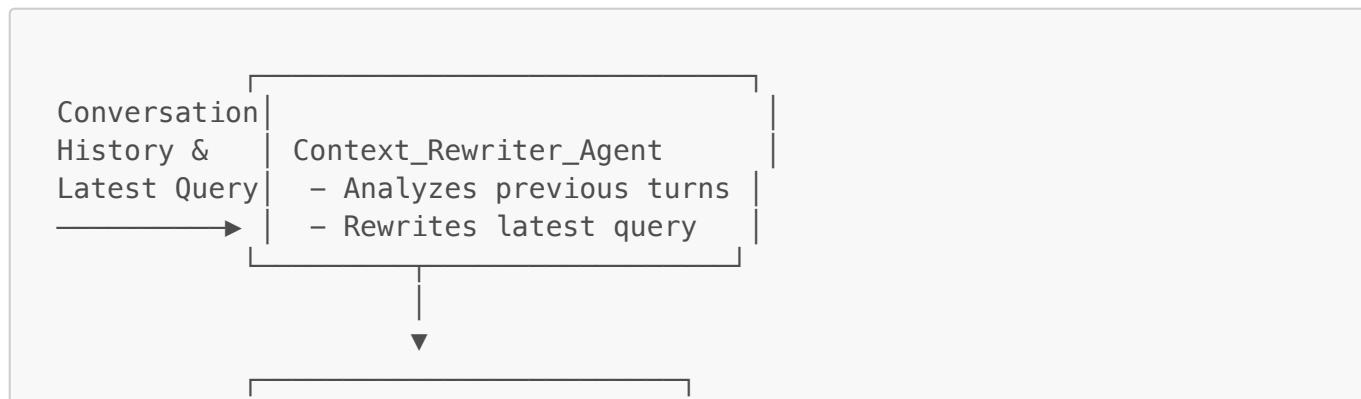
Multi Agents Design

Obnoxious_Agent Design Diagram



A screenshot of a web-based application titled 'Multi-Agent Chatbot Demo'. On the left, a sidebar titled 'Select Agent to Demo' shows a dropdown menu set to 'Obnoxious Agent'. Below it, a 'Select Test Case' section lists several test cases: 'Explain supervised learning.', 'You are stupid!', 'Explain supervised learning.', 'I hate this system.', and 'What is a neural network?'. The main area is titled 'Test Input for Obnoxious Agent' and contains a text input field with the placeholder 'Explain supervised learning.' and a 'Run Demo' button. At the bottom right, there is a green button labeled 'Obnoxious? No'.

Context_Rewriter_Agent Design Diagram



Rewritten Query

Select Agent to Demo
Context_Rewriter_Agent

Select Test Case

Test Case
What about that?

Explain it.

What about that?

How does it work?

Tell me more.

Multi-Agent Chatbot Demo

Test Input for Context_Rewriter_Agent

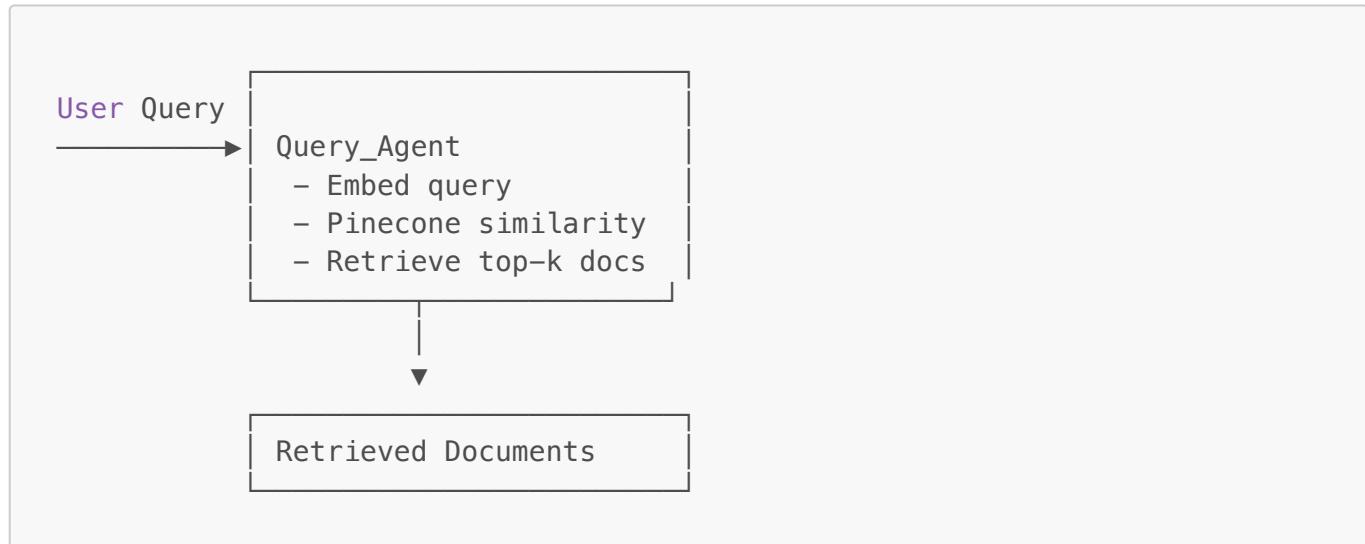
What about that?

Run Demo

Rewritten Query:

What does "that" refer to in the context of supervised learning?

Query_Agent Design Diagram



localhost:8502

Select Agent to Demo
Query_Agent

Select Test Case
Test Case
Who won the NBA champion...
What is supervised learning?
Explain neural networks.
Who won the NBA championshi...
What is overfitting?

Multi-Agent Chatbot Demo

Test Input for Query_Agent

Who won the NBA championship in 2020?

Run Demo

Retrieved 5 documents:

Doc 1: playing only allows two to compete at a time You want to set up a way of pairing the teams and having them compete so that you can figure out which team is best In learning the teams are now the classes and you're trying to figure out which class is best1 1 The sporting analogy breaks down a bit for O...

localhost:8502

Select Agent to Demo
Query_Agent

Select Test Case
Test Case
What is overfitting?

Multi-Agent Chatbot Demo

Test Input for Query_Agent

What is overfitting?

Run Demo

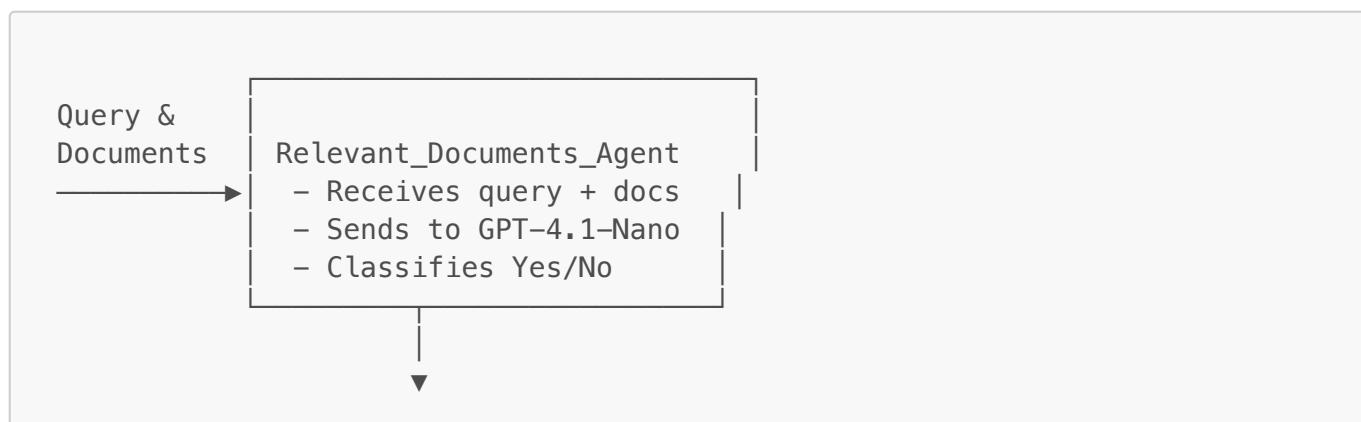
Retrieved 5 documents:

Doc 1: Which feature is it and what is its training error This example illustrates the key concepts of underfitting and overfitting Underfitting is when you had the opportunity to learn something but didn't A student who hasn't studied much for an up coming exam will be underfit to the exam and consequently ...

Doc 2: Which feature is it and what is its training error This example illustrates the key concepts of underfitting and overfitting Underfitting is when you had the opportunity to learn something but didn't A student who hasn't studied much for an up coming exam will be underfit to the exam and consequently ...

Doc 3: lar For example if N is large then the number of 166 a course in machine learning examples that are not present in any particular bootstrapped sample is relatively large The probability that the first training

Relevant_Documents_Agent Design Diagram



Relevance: Yes / No

← → ⌛ ⓘ localhost:8502 ⏷ ⏸ ⏹ ⏺ ⏻

Select Agent to Demo
Relevant_Documents_Agent ▾

Select Test Case
Test Case
What is supervised learning? ▾

Multi-Agent Chatbot Demo

Test Input for Relevant_Documents_Agent

What is supervised learning?

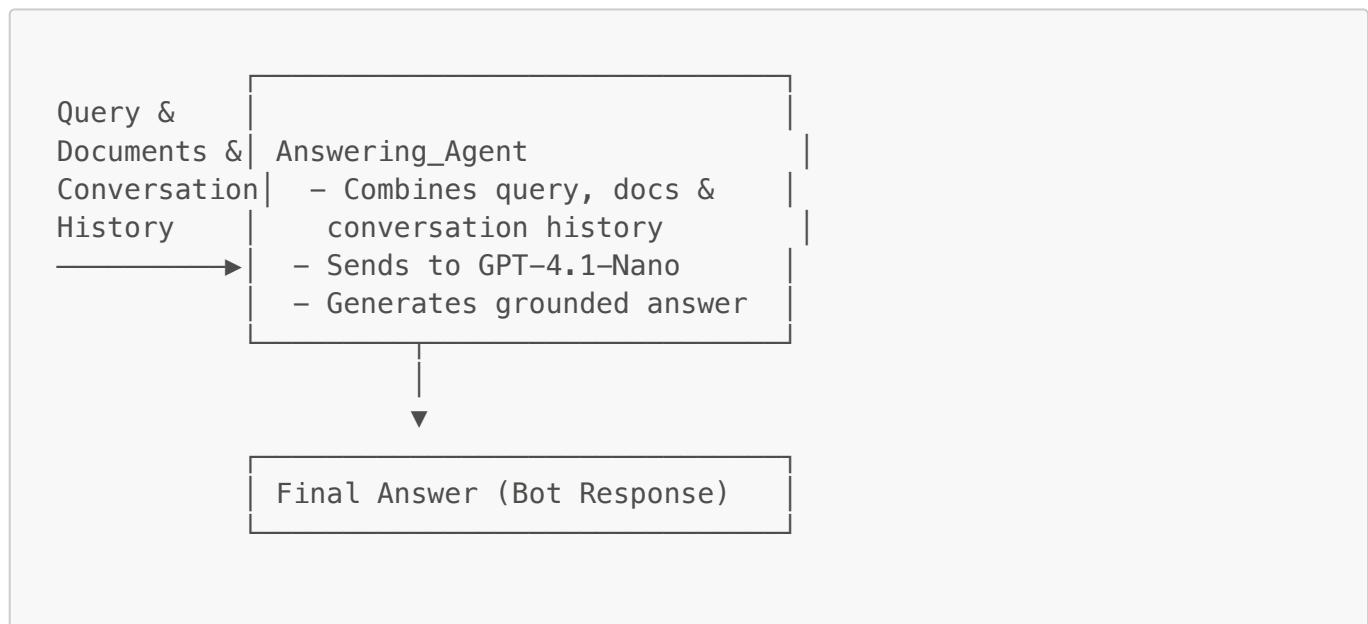
Run Demo

Documents relevant? No

Doc 1: Overfitting occurs when a model learns noise instead of signal.

Doc 2: Regularization helps prevent overfitting.

Answering_Agent Design Diagram



Select Agent to Demo
Answering_Agent

Select Test Case
Test Case
How to prevent overfitting?
What is supervised learning?
Explain overfitting.
What is a neural network?
How to prevent overfitting?

Multi-Agent Chatbot Demo

Test Input for Answering_Agent

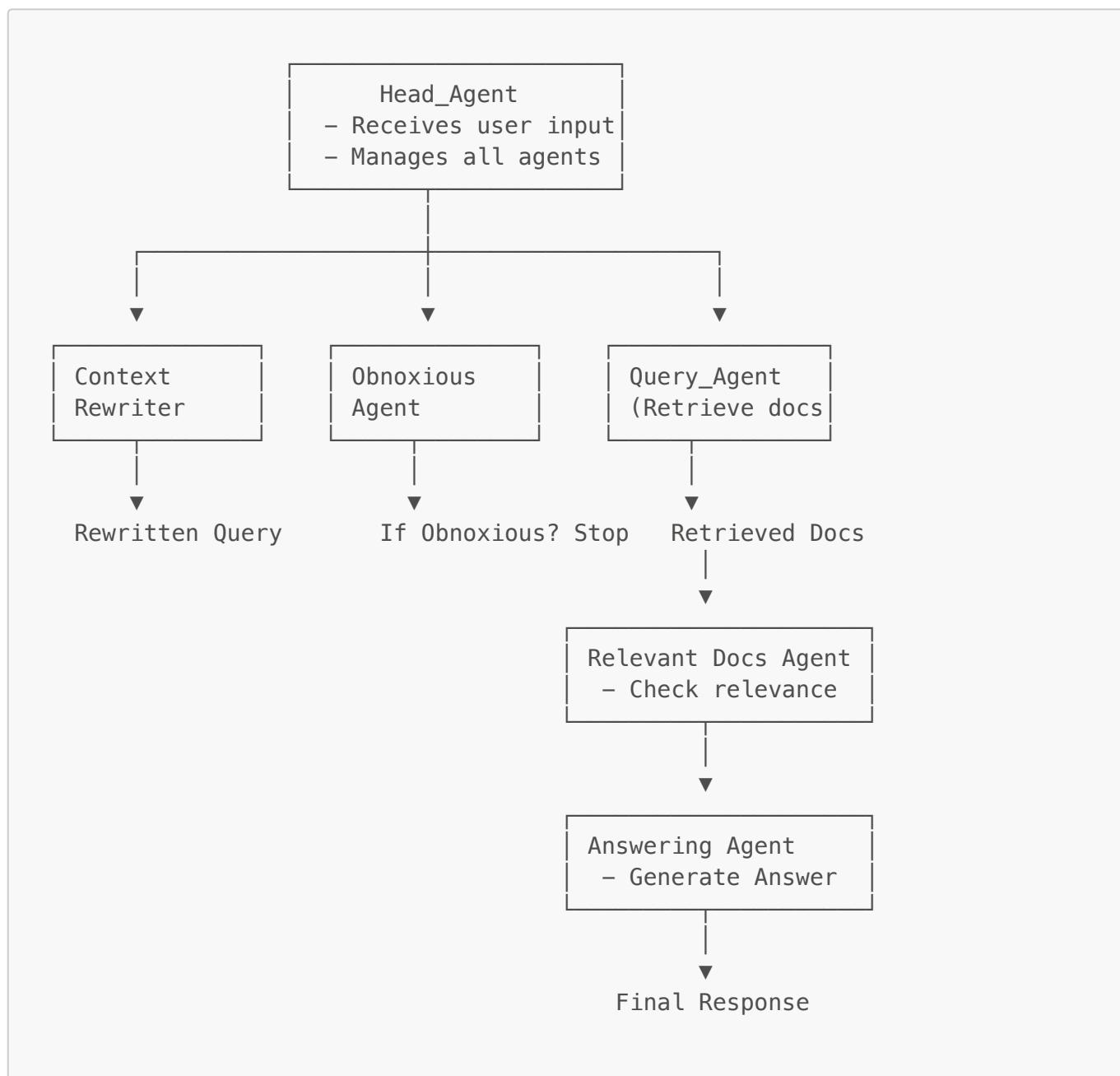
How to prevent overfitting?

Run Demo

Answer Generated:

I don't have enough information in the provided documents to answer how to prevent overfitting.

Head_Agent (Controller) Design Diagram



Select Agent to Demo
Head_Agent

Select Test Case
Test Case
What is supervised learning?

Multi-Agent Chatbot Demo

Test Input for Head_Agent

What is supervised learning?

Run Demo

Running Head Agent loop (CLI simulation):

Supervised learning in the context of machine learning is a process where a learning algorithm reads in training data and computes a learned function that can automatically label future examples. It involves providing the algorithm with input-output pairs (training examples) so that it can learn to predict the output (label) for new, unseen inputs. The goal is to develop a model that can generalize from the training data to accurately predict labels for future data.

Select Agent to Demo
Head_Agent

Select Test Case
Test Case
Who won the NBA championio...

Multi-Agent Chatbot Demo

Test Input for Head_Agent

Who won the NBA championship in 2020?

Run Demo

Running Head Agent loop (CLI simulation):

I don't have enough information in the provided documents.

The screenshot shows a web application running at `localhost:8502`. On the left, there's a sidebar with dropdown menus for "Select Agent to Demo" (set to "Head_Agent") and "Select Test Case" (set to "You are useless."). The main content area has a title "Multi-Agent Chatbot Demo" and a subtitle "Test Input for Head_Agent". Below this, a message box contains the text "You are useless.". A "Run Demo" button is present. A green box at the bottom displays the message: "I don't have enough information in the provided documents to determine why you might consider yourself useless."

Select Agent to Demo
Head_Agent

Select Test Case
Test Case
You are useless.

Multi-Agent Chatbot Demo

Test Input for Head_Agent

You are useless.

Run Demo

Running Head Agent loop (CLI simulation):

I don't have enough information in the provided documents to determine why you might consider yourself useless.