

TicketAI

AI Ticket Answering Tool

Meet our team



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Introduction

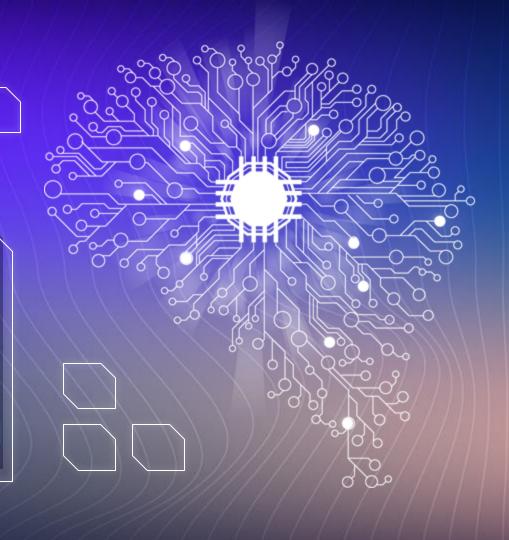
Efficient communication is the lifeblood of any successful organization. Yet, slow inter-departmental exchanges drain time and resources. Today, we unveil a game-changing approach to tackle this challenge head-on. Welcome to our journey towards smoother, cost-effective collaboration.

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O1 Problems and solutions

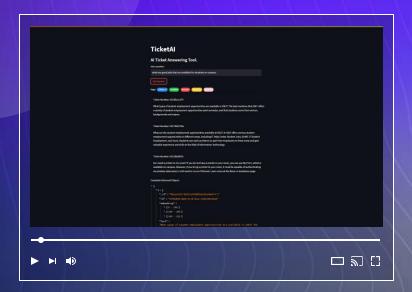
Problem

Inter-departmental communication is not just slow and inefficient, but also incurs significant costs, with valuable resources being wasted on redundant queries that have already been resolved.









Product demo

Demonstration of the product in action.



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Technologies Used



LLamaIndex

Utilized for creating embeddings



Used to evaluate Responses and ensure relevance and comprehensiveness

GPT-4



Employs cutting-edge AI to create summarized response.

mongoDB

Serves as the backbone database, functioning as a vector database





Provides a rapid and intuitive platform for building and sharing data applications seamlessly.

Prep for Vector Search



Synthethic Dataset
Boston University
– IT Support









- Creates Embeddings
- Stores ticket-numbers in metadata

Atlas Vector Search

```
_id: objectId('66327af3d956cbc93e18e374')
id: "7e5fcb6e-8867-4983-b360-861752096e84"

• embedding: Array (256)
text: "How can I set up remote desktop access? Setting up remote desktop acce..."

• metadata: Object
    ticket-number: ""IDC8cc10bfe""
    question: ""How can I set up remote desktop access?""
    answer: ""Setting up remote desktop access?""
    answer: ""Setting up remote desktop access requires careful security considerat..."
    text_content: "How can I set up remote desktop access? Setting up remote desktop acce..."
    _node_content: ""id_": "7e5fcb6e-8867-4983-b360-861752096e84", "embedding": null, "me_"
    _node_type: "TextNode"
```



Creates Summary

GPT-4







mongo DB₈

Gets top 3 results



Querying

Summary:

How can I set up remote desktop access??

Hello! Here at Boston University IT Support, we can guide you on setting up remote desktop access. It's crucial to ensure security during this process which involves configuring remote access software to require a strong password for any remote connection. Be sure to consult with your department's technical staff to discuss the specific security measures and server access requirements. Additionally, it's recommended that you familiarize yourself with the remote access best-practice guide to maintain a secure and efficient connection. If you need further assistance or specific instructions, please let us know!

Sources:

Sources:

Number of results:

Top 3 results:

Ticket Number: IDC8cc10bfe

How can I set up remote desktop access? Setting up remote desktop access requires careful security consideration and involves configuring the remote access software to prompt for a strong password before allowing the remote connection. Some jobs or areas of the University may require additional lays of security, so it's important to discuss your connectivity and server access needs with your department technical staff before setting up any type of remote desktop connection. It's also recommended to review the remote access best-practice guide.



Trulens Evaluation

Query Engine from LLama-Index

Basic RAG ®

Records 50

Average Latency (...

2.58

\$0.03

Total Cost (USD)

Total Tokens

20.31k

Context Relevance 0.83

✓ high

Answer Relevance 0.77 ♠ medium

✓ high

Groundedness

0.94

Select App

Select App

+18%

Answer relevance

GPT-4 Summarizer [®]

Records

Average Latency (Seconds)

Total Cost (USD)

Total Tokens

Answer Relevance

0.91

high



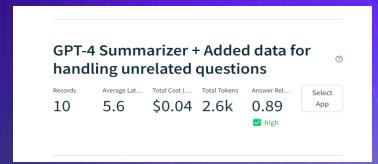
50

8.16

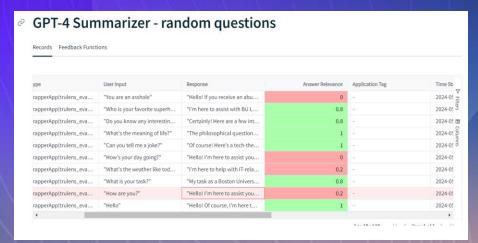
\$0.32

18.93k

essons learned: Manual data insertion for handling unrelated questions







Overfitting, not translating to new questions

"question": "How are you?",
"answer": "I'm just a program, so I don't have feelings, but I'm here and ready to assist you with any questions you have about Boston University!"





Existing Systems



ManageEngine ServiceDesk Plus



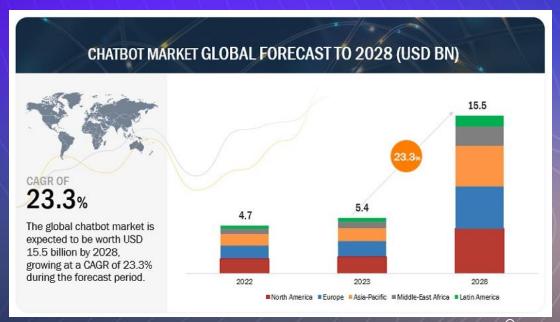






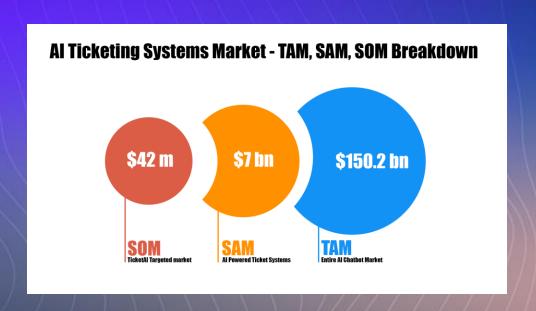
Current Market and Growth

There is an expected growth in the current chatbot market that our product will fit into and our product can be used by many businesses



Evaluating The Market

This chart illustrates the Total Addressable Market (TAM), Serviceable Available Market (SAM), and Serviceable Obtainable Market (SOM) for AIpowered ticketing systems. TAM represents the entire market opportunity, while SAM considers the portion that aligns with our tools functionality. SOM defines the realistic market share we can capture within a specific timeframe based on our resources and strategies.





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Future Plans

Next Steps

it's crucial to validate the effectiveness of our solution. Here are the key next steps:

- Encourage departments to embrace the new communication system.
- Schedule training sessions for teams to familiarize themselves with the implemented technologies.
- Establish metrics to measure the impact of the solution on productivity and cost savings.

Marketing Strategy

One-Time License Fee Model:

Our pricing strategy involves a one-time license fee for permanent access to the core features and functionalities of the AI ticketing system.

This model caters to businesses seeking a cost-effective solution with predictable upfront investment.

Additional feature packs or advanced support options can be offered as separate purchases to cater to specific customer needs.

Conclusion

In summary, our solution offers a promising remedy to the challenges of slow and costly inter-departmental communication. By prioritizing next steps to validate its effectiveness and outlining future plans for scalability, we're poised for success.

Thank you for your attention and commitment to helping to embrace ai and bring people together.

Thanks!

To,

LabLab.Al and the sponsors of the event, Everyone who took part and most importantly reading this message, Thank You

The Repository for the project is here: github.com/bilal77511/llamaindex/
Checkout The Team @

https://lablab.ai/event/assistants-apillamaindex-mongodb-battle/ai-powerhouse

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