



AIDOC

FINAL CHALLENGE

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**The average wait time
is between 89 and 123
days**



**Doctors spend 25-30%
of their time on
administrative tasks**



70% of physicians feel overwhelmed by the constant influx of new medical information.



**25% of patient records
have some level of
inconsistency**



**20% of medical
appointments in Spain
are missed due to
scheduling conflicts or
system inefficiencies**



INTRODUCTION



PROBLEM

**Limited access
and inefficient
allocation of
health resources**



PROPOSED SOLUTION

AIDOC Chat Bot





METHODS

LLM MODEL TRAINING

PROTOTYPE TESTING

1

2

3

4

DATA PREPARATION
(ANALYSIS AND FILTERING)

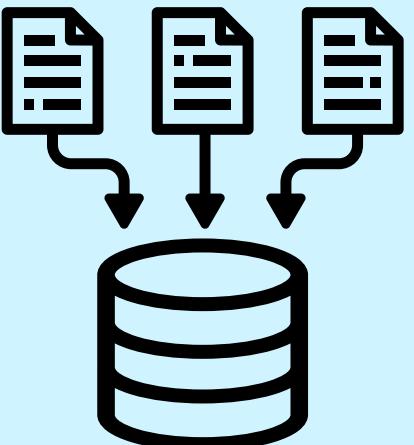
AIDOC INTERFACE CREATION



PREVIOUS CONCERNS

1TB

Project focused on
1 TB semistructured
data.



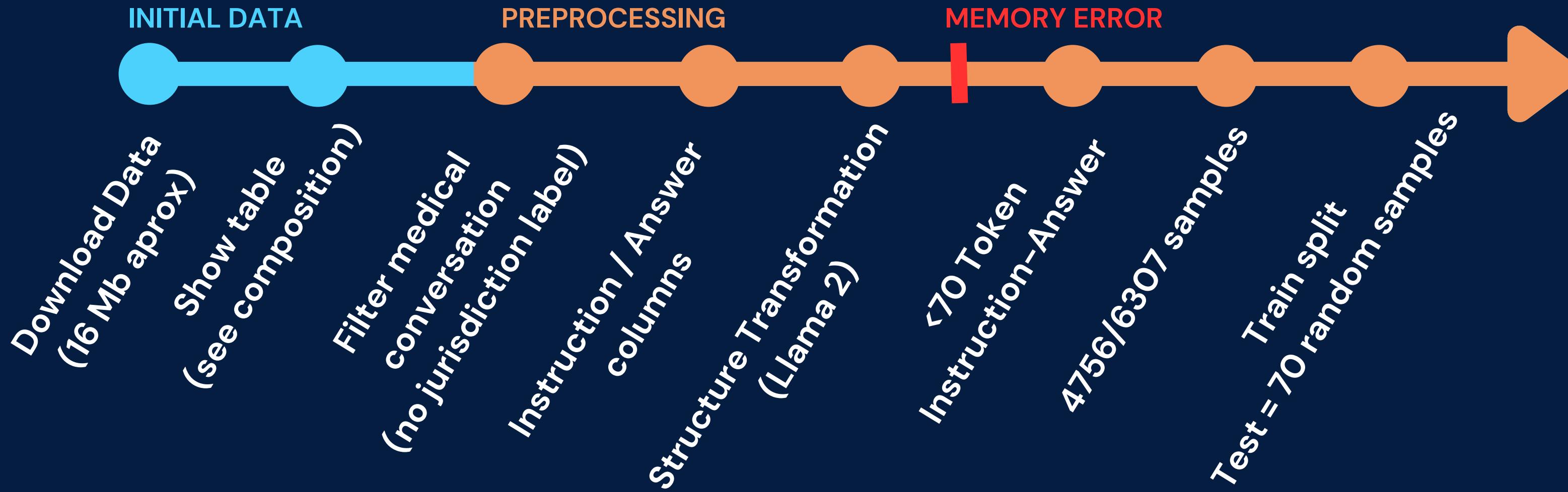
Azure

Challenge 1
competences





DATA PREPARATION



*Challenge 1 Concepts



LLM MODEL



*Challenge 3 Concepts



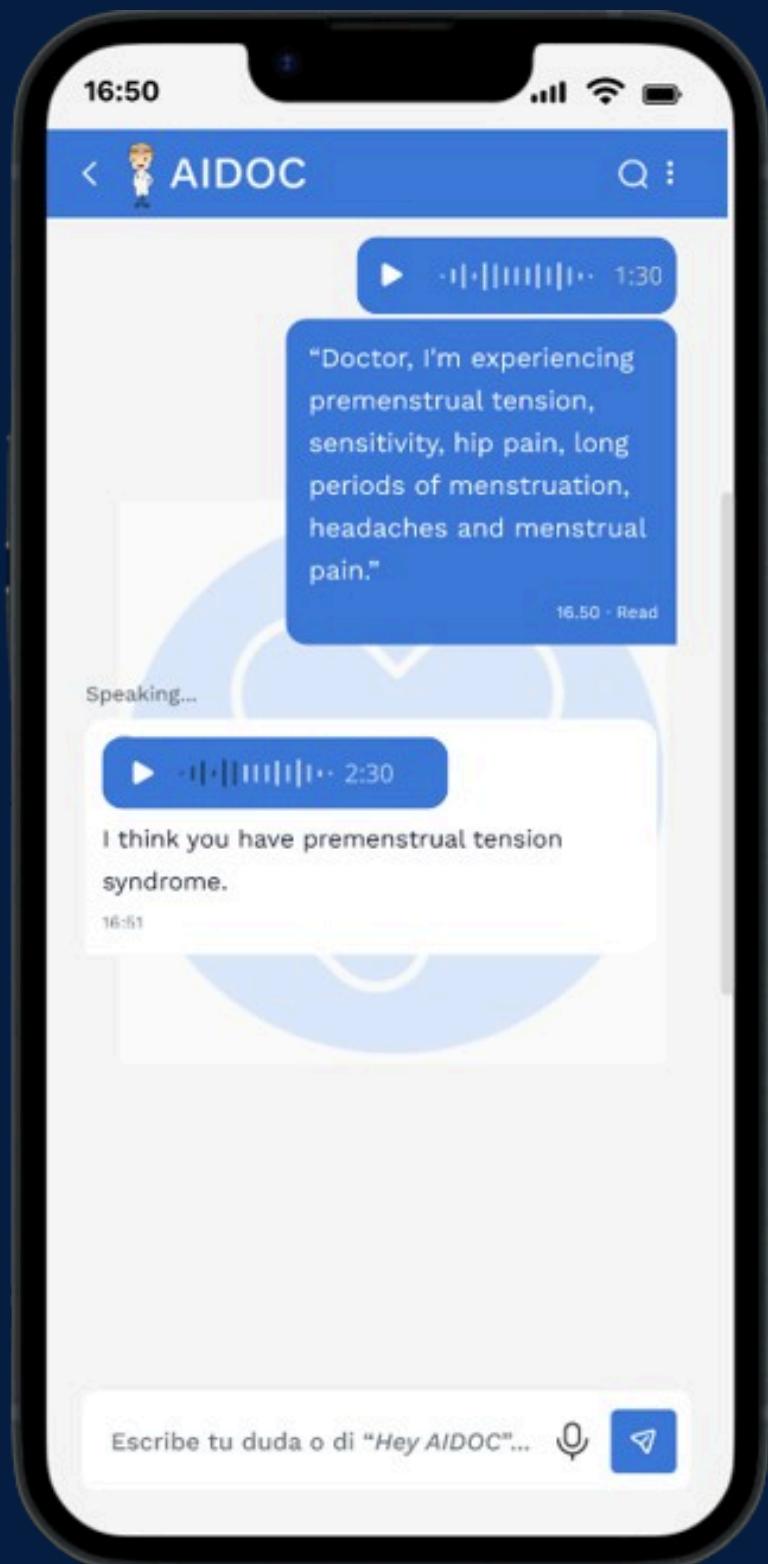
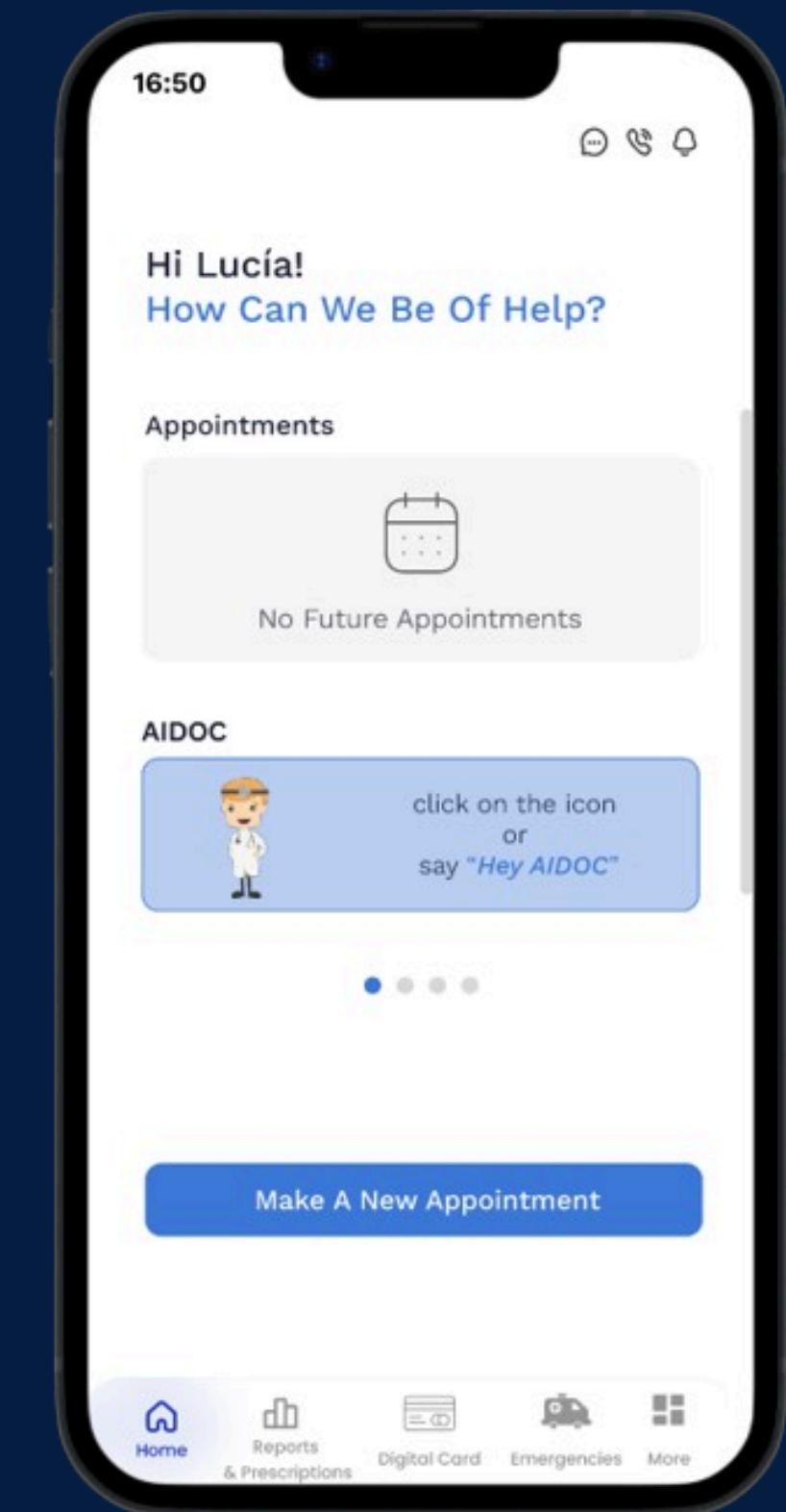
AIDOC INTERFACE

1

Download the model with the weights

2

Use API to integrate the model with
chatbot app





AIDOC PROTOTYPE



This is a prototype designed for providing medical information and knowledge through queries generated by Large Language Models (LLMs):

Enter your question here

Hello, my name is Enrique

Give me the answer!

Results of your query:

Good morning! I am AIDOC, your AI doctor. How can I assist you today? Remember that I can schedule you an appointment or maybe clarify you about your current health status.

Streamlit



RESULTS

ROUGE metrics	Rouge 1	Rouge 2	Rouge L	Rouge Lsum
Value	0.357910	0.272377	0.331550	0.331550

***Rouge 1:** Measures the precision of unigram (single-word) overlap between the generated text and a reference (human-generated) text

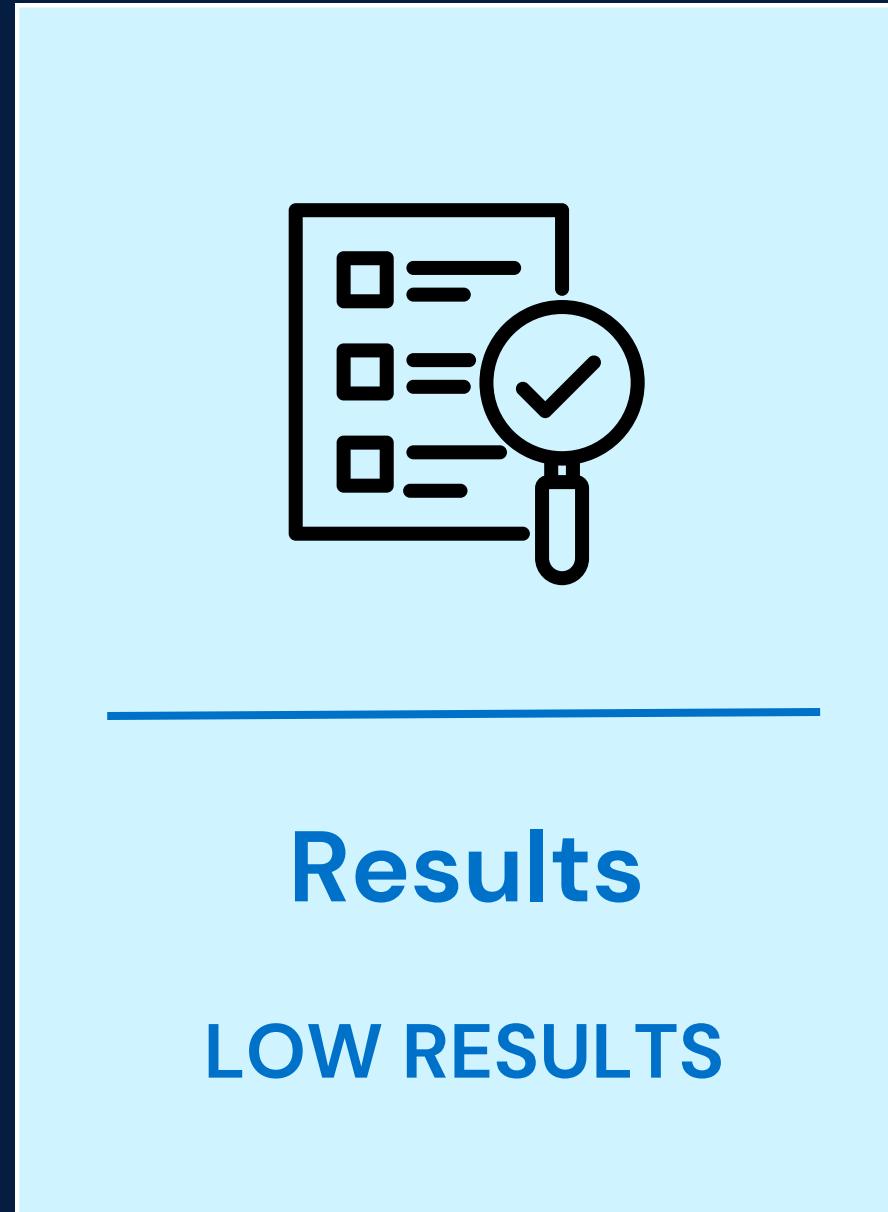
***Rouge 2:** Measures the precision of bigram overlap between the generated text and a reference text. Similar to ROUGE-1, but considers pairs of adjacent words (bigrams) instead of single words (unigrams).

***Rouge L:** Matches the Longest Common Subsequence (LCS) between the generated text and a reference text.

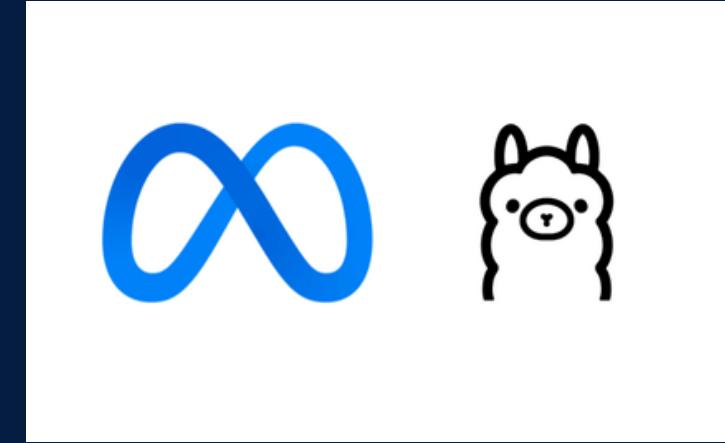
***Rouge Lsum:** Considers the sum of the ROUGE-L scores for each reference text.



DISCUSSION



LLAMA 2 MODEL



Very limited data for training
(1 TB must improve the results)

Very limited resources
(pro account: Azure, Collab, Amazon...)

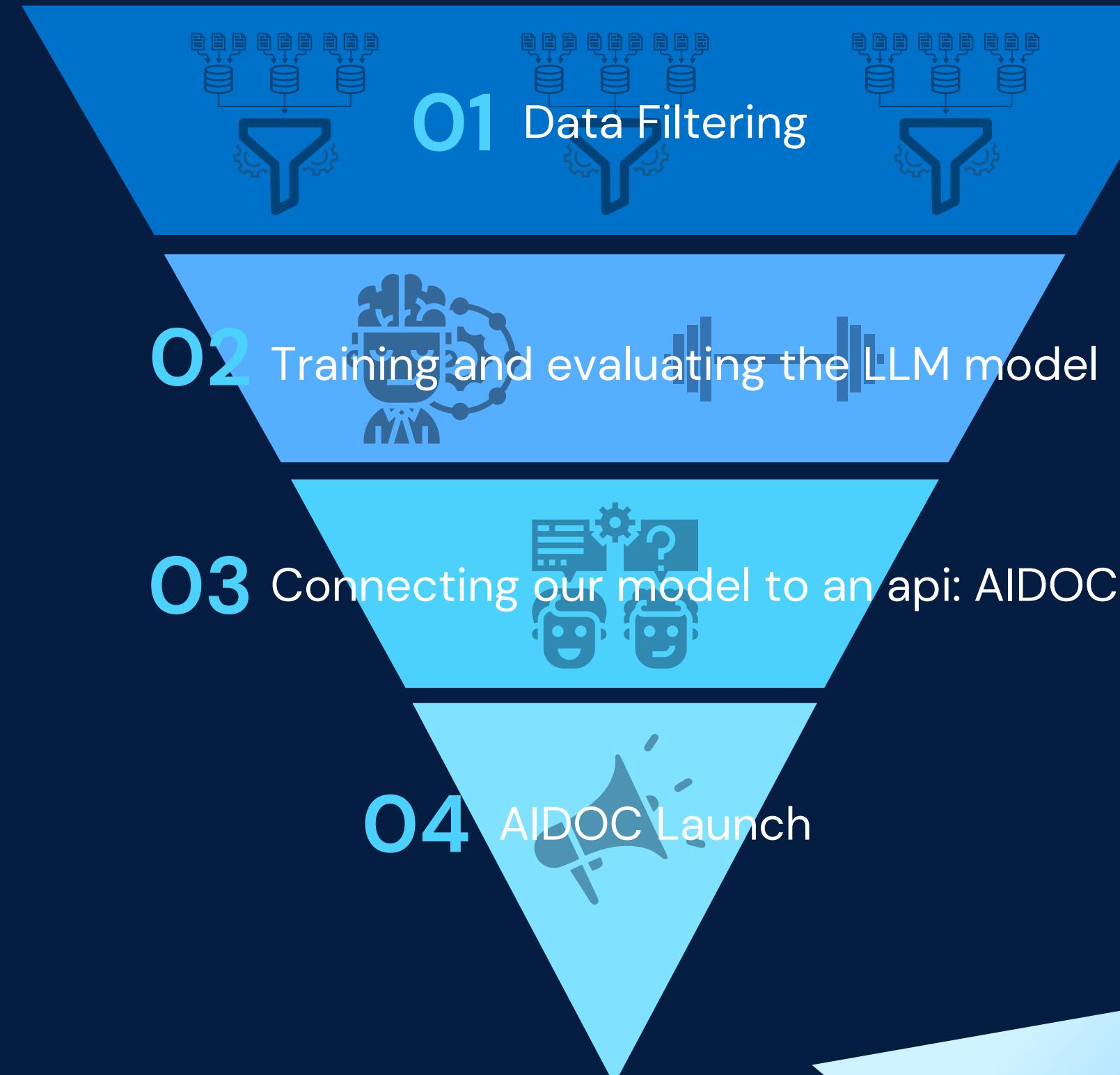
Not an specific model for our objective
(problem address by companies not individuals)



DISCUSSION

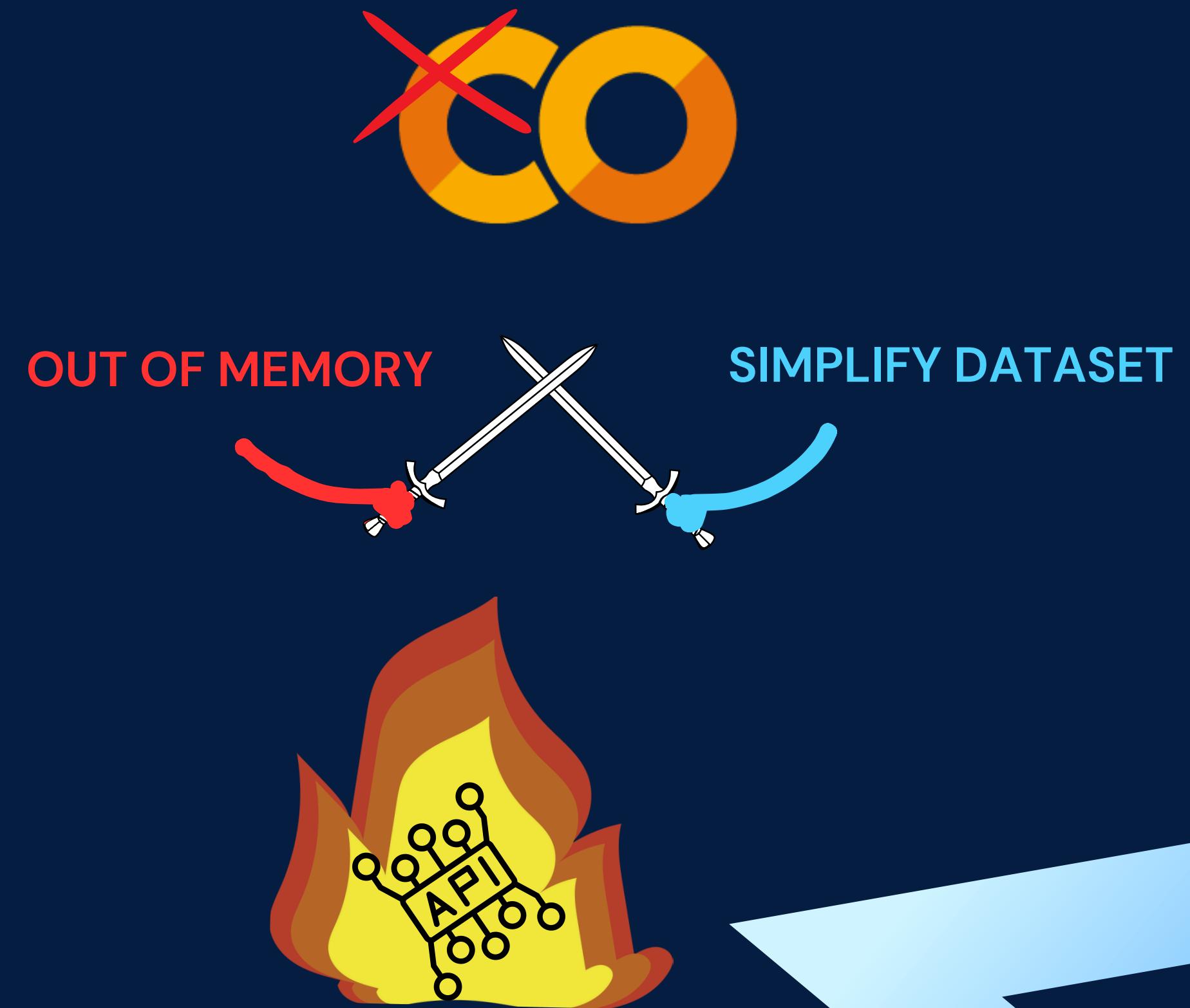
Objectives

- ~~Access~~
- ~~Allocation~~





DISCUSSION

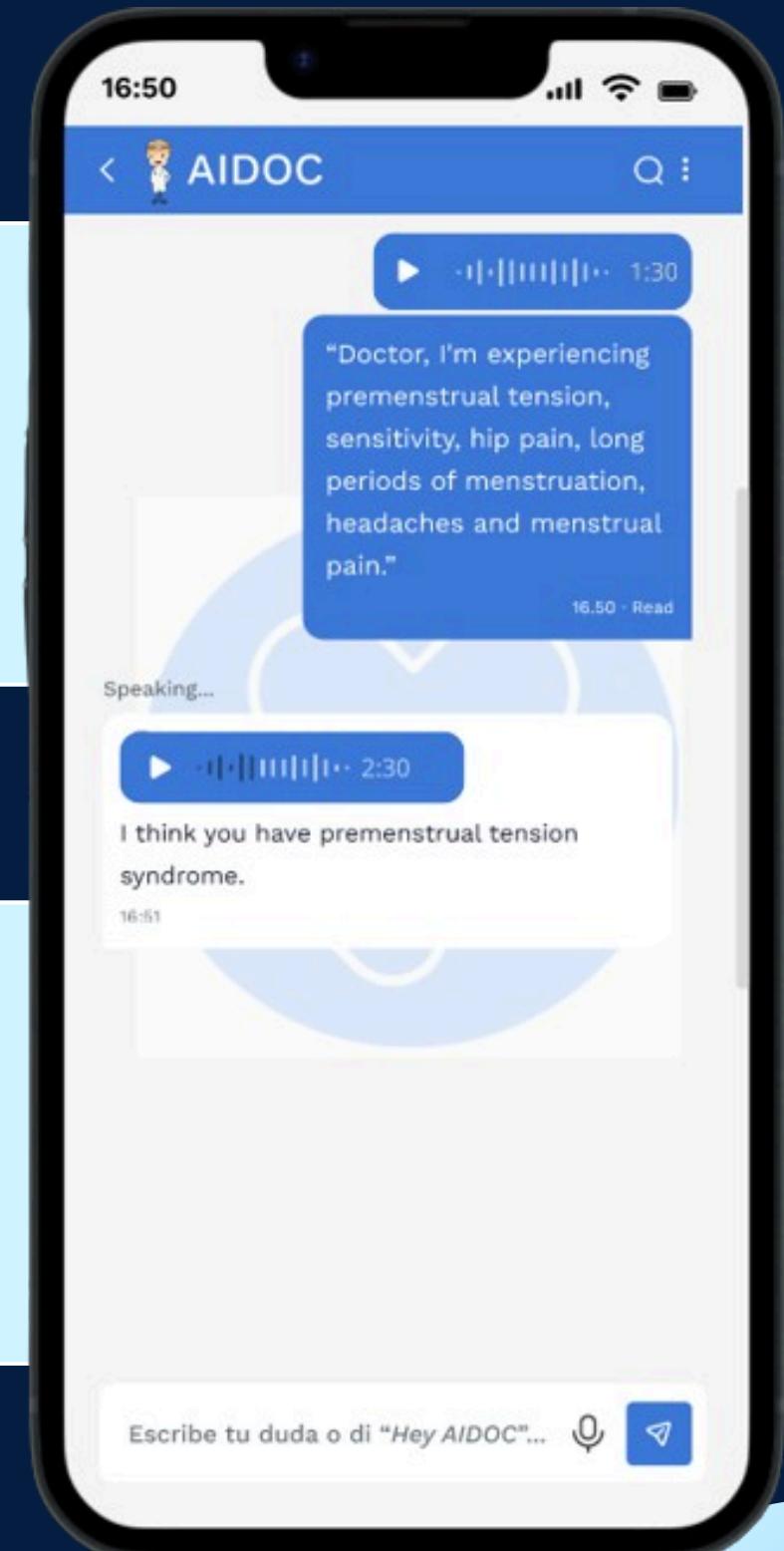




CONCLUSION

POTENTIAL

NEEDED TOOLS





AIDOC TEAM

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