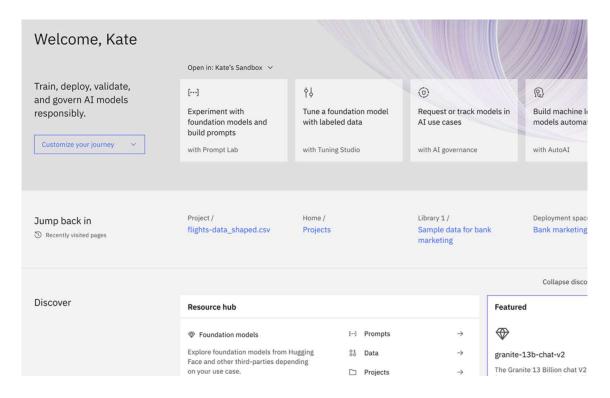
# Challenge June 2024 Stable marriages

A solution with watsonx Al Granite 13B by Alex Fleischer afleischer@fr.ibm.com

In January 2024, the challenge was a family riddle and I am glad to help families again here with watsonx Granite.

Watsonx AI is the IBM AI platform that is both hybrid AI (optimization, non generative machine learning and generative AI) and hybrid cloud (on prem and public cloud)

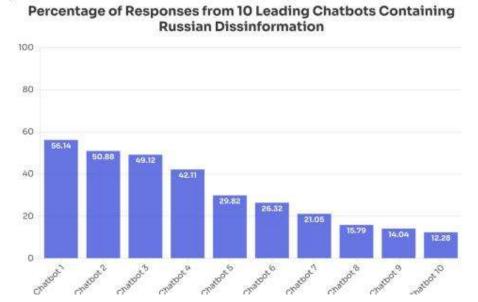


Watsonx offers many large language models from Meta, Mistral, google, and hugging face but also IBM models that are trained with curated data: granite.

granite-13b-chat  Featured model	IBM	Supports questions and answers (Q&A), summarization, classification, generation, extraction and RAG tasks.
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When you decide who will marry whom, it is key not to have any foreign influence, isn't it?

( <a href="https://www.newsguardtech.com/special-reports/generative-ai-models-mimic-russian-disinformation-cite-fake-news/">https://www.newsguardtech.com/special-reports/generative-ai-models-mimic-russian-disinformation-cite-fake-news/</a>)



So let me use granite here.

Since LLM work well with languages let me turn, the preferences into words.

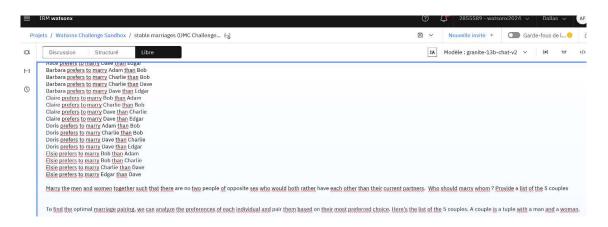
## So the prompt I use is

Adam prefers to marry Barbara than Alice Adam prefers to marry Barbara than Claire Adam prefers to marry Claire than Doris Adam prefers to marry Elsie than Doris Bob prefers to marry Barbara than Alice Bob prefers to marry Barbara than Claire Bob prefers to marry Doris than Claire Bob prefers to marry Doris than Elsie Charlie prefers to marry Barbara than Alice Charlie prefers to marry Claire than Doris Charlie prefers to marry Elsie

than Doris Dave prefers to marry Alice than Barbara Dave prefers to marry Claire than Barbara Dave prefers to marry Doris than Claire Dave prefers to marry Elsie than Doris Edgar prefers to marry Barbara than Alice Edgar prefers to marry Claire than Barbara Edgar prefers to marry Doris than Claire Edgar prefers to marry Doris than Elsie Alice prefers to marry Adam than Bob Alice prefers to marry Bob than Charlie Alice prefers to marry Dave than Charlie Alice prefers to marry Dave than Edgar Barbara prefers to marry Adam than Bob Barbara prefers to marry Charlie than Bob Barbara prefers to marry Charlie than Dave Barbara prefers to marry Dave than Edgar Claire prefers to marry Bob than Adam Claire prefers to marry Charlie than Bob Claire prefers to marry Dave than Charlie Claire prefers to marry Dave than Edgar Doris prefers to marry Adam than Bob Doris prefers to marry Charlie than Bob Doris prefers to marry Dave than Charlie Doris prefers to marry Dave than Edgar Elsie prefers to marry Bob than Charlie Elsie prefers to marry Charlie than Dave Elsie prefers to marry Edgar than Dave

Marry the men and women together such that there are no two people of opposite sex who would both rather have each other than their current partners. Who should marry whom? Provide a list of the 5 couples

#### And I enter



## And then I get



### Where I see

The final list of the 5 couples is:

- 1. (Adam, Barbara)
- 2. (Bob, Claire)
- 3. (Charlie, Dave)
- 4. (Edgar, Alice)
- 5. (Doris, Elsie)

This pairing ensures that there are no two people of opposite sex who would both rather have each other than their current partners.

Watsonx and I were glad to help!