

— readings topic discussed:- **Retrieval Augmented Generation (RAG)** ***concept--- a way to connect generative AI to real information.

It brings in data from well defined sources and uses it as a guide for its response.

- Helped make the gap between retrieving data and generating language.**definition
- Makes responses more evidence based

1. Building an image classifier things to note:-

- We look at images in layers
- 1st colors and edges then later shapes/objects
- Sees many examples, model
- Figures out patterns that batch each label .
- We can train it to recognize new things by changing the last layer

2. tried the “ghost of Petrie” notebook.....

- model predicts text based on patterns,
- weird seeing it “complete” Petrie’s writing — felt smart but just guessing
- AI isn’t one thing — generative Alis not actual intelligence
- archaeology already used ML (pattern finding, image sorting) way before chatbots-
- interesting how models reflect culture
- human interpretation still matters*?
- Running the notebook was lagging a bit. Worked in the end. Make sure to check the internet. I also looked at google colab.

3. learned about RAG

- model finds info first, then writes based on it
rag = retrieval + generation
- pulls info before answering
- keeps ai closer to truth

- uses vectors / embeddings
- turns csv rows → vectors
- finds closest matches to question
- used for site + context data
- helps organize info
- needs human check
- ai sounds real but can be wrong
- danger = overtrusting
- ***?????could use with graveyard data

failures:-

- some errors loading csv
 - Slow on laptop
 - answers sometimes random or off
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- sometimes made new sentences that sounded like him
 - model output felt “smart” but sometimes mixed unrelated ideas
 - some text seemed plausible but wrong
 - useful for seeing patterns in his language
 - fun for exploring old texts in a new way