Pedagogical Design of Content

KG Link - <https://drive.google.com/file/d/1Pr-kCBWQ7iPtY2Eyd6PcD21i_z-cQYz5/view?usp=sharing>

(Knowledge graphs)

* What is GenAI
* How is it different from biological intelligence - My Brain vs AI Brain
* Epistemic Charity to be afforded to AI
  + When to take things at face value
  + When to cross-validate with other sources
  + When to be really skeptical
* Problems
  + Reasoning
  + World Modeling
  + Affirmative Style of Dialogue
* Bias
  + Prejudice - Stereotypes that exist which create inherently “good” or “bad” dichotomies such as Turtles (good, keep) vs Snakes (bad, kill)
  + Algorithmic - Underrepresentation of certain groups in training data (black people don’t get identified by recognition software)
  + Confirmation - Bias that exists in people based on preconceived notions can manifest in AI as well. A model trained on Republican social media platforms would be more liable to believe that Trump is currently the President of USA.
  + Fairness - Not every story has two sides. “The earth is round” vs “the earth is flat” are not equal arguments.
  + Data - If the data used to train models has gaps that would reflect in the responses. Gaps can include exclusion of certain groups or mis-labeling.
* Hallucinations
  + Factual - False beliefs or statements presented as facts
  + Semantic - Misrepresentation of language with loss of intended meaning
  + Logical - Errors in reasoning or logical structure of the argument
  + Visual - Images that don’t make real world sense eg. Turtles with butterfly wings
* Out of context
  + Irrelevant context - Using context that is not applicable at all
  + Incorrect context - White family every time in an Africa search

UI elements -

1. Top bar - Critical Turtle Product Name & Logo
2. Cards -
   1. The Basics
      1. Intelligence Is A Big Word

→ What is intelligence? Give different aspects of intelligence and concrete explanations (problem solving, handling unexpected events, critical thinking, etc).

* + 1. When intelligence becomes artificial

→ Explain what is an intelligent system, focus on the characteristics of autonomous interaction with the external world. Give examples of intelligent systems and explicitly differentiate between other types of automated systems.

* + 1. Can AI Think?
       1. How Does My Brain Learn?
       2. My Brain and AI’s Brain
       3. My Words and AI’s Words
       4. Why Won’t AI Do My Math?
  1. What Can Go Wrong With AI?
     1. Is AI Fair?
        1. Turtles and Snakes
        2. White Kids, Brown Kids
        3. Girls and Boys
     2. Spot The Difference!
        1. The Winged Turtle
        2. The Giant Ant
     3. Talking To AI
        1. AI Keeps Saying Yes!
        2. AI Gets Confused (A Lot)
     4. Does AI Know It All?
        1. Facts and Fiction
        2. Ask Wisely!
        3. When To Think Twice
  2. What Can I Do About It?

1. Footer