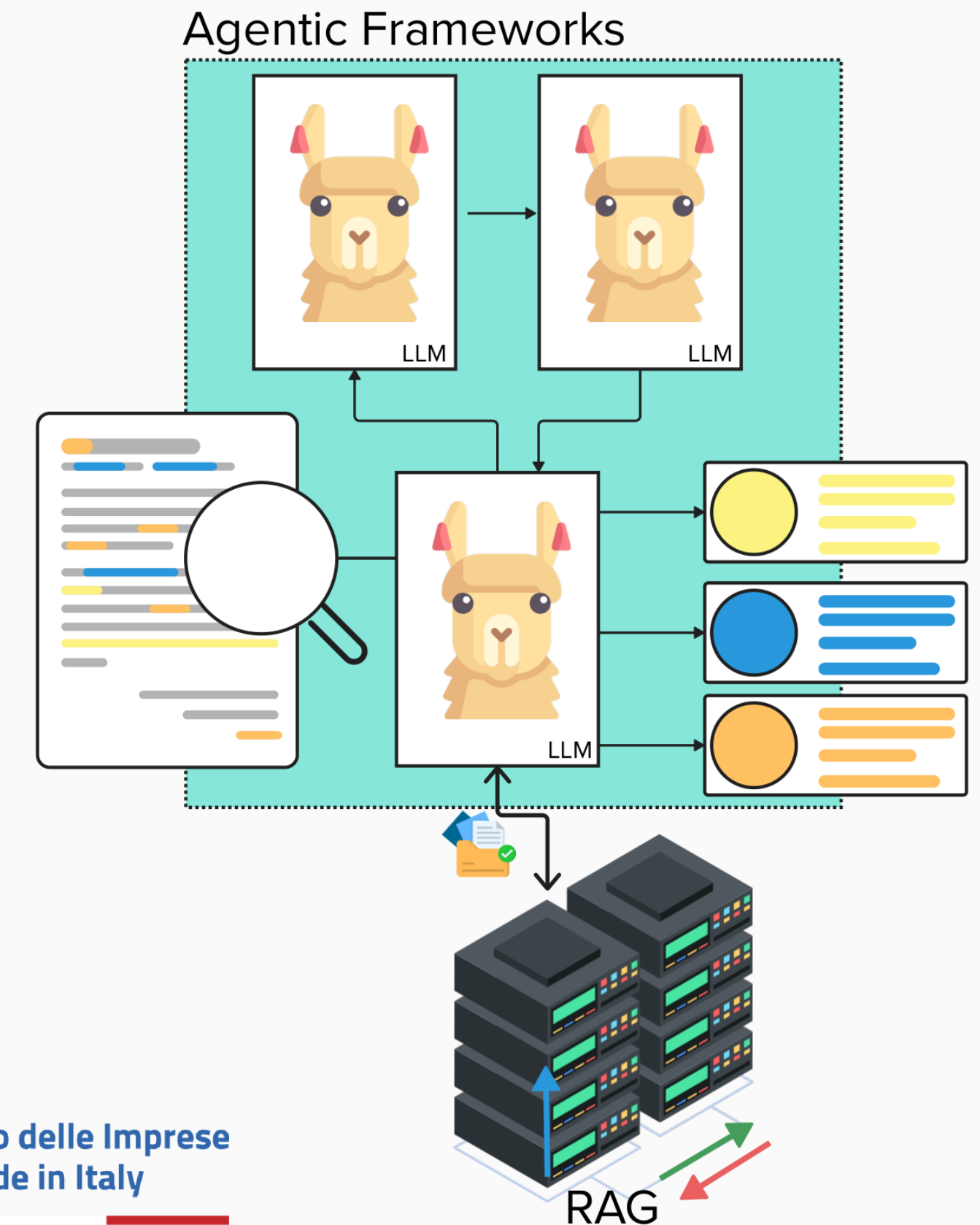
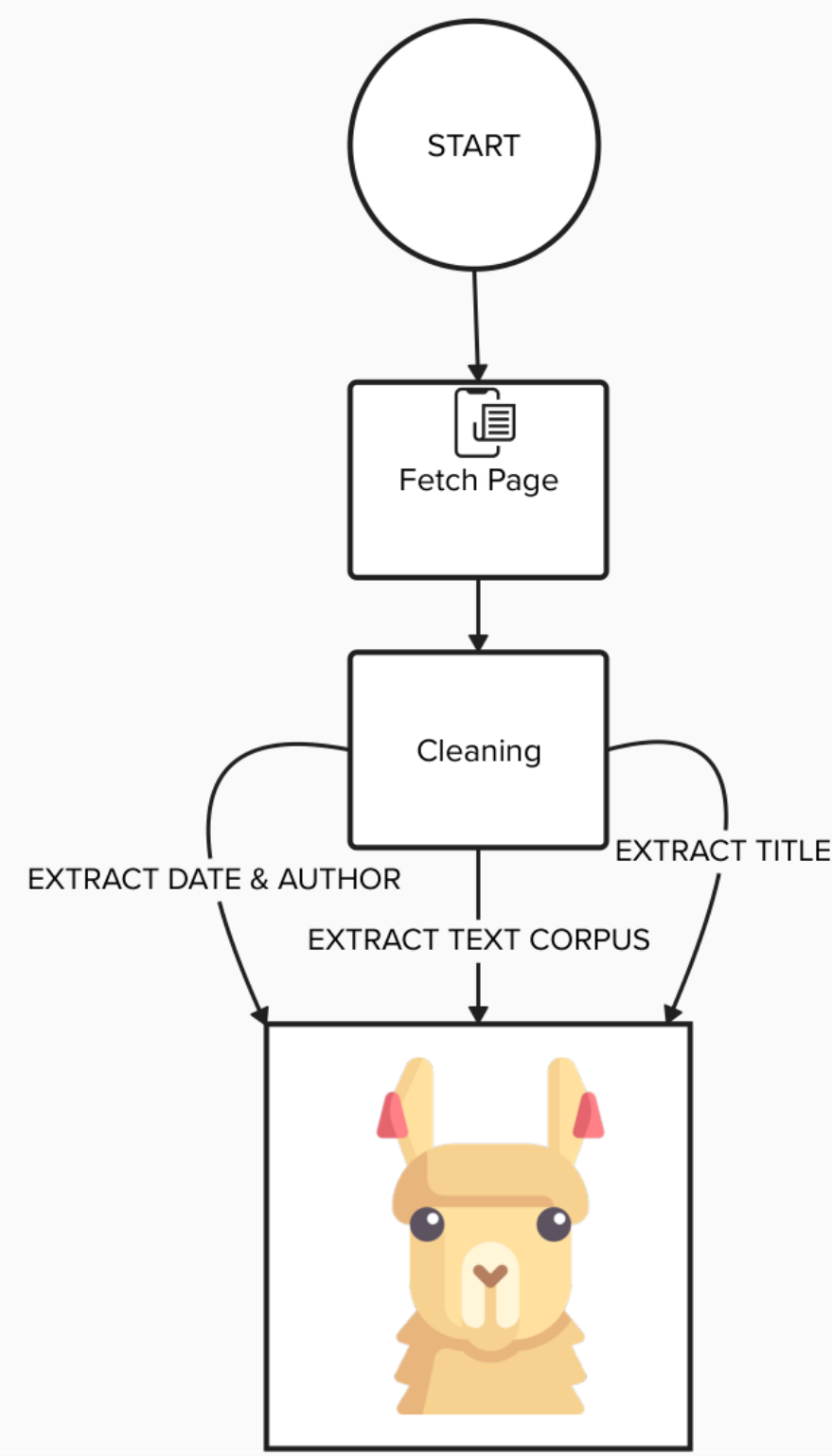


Complex Applications with Language Models

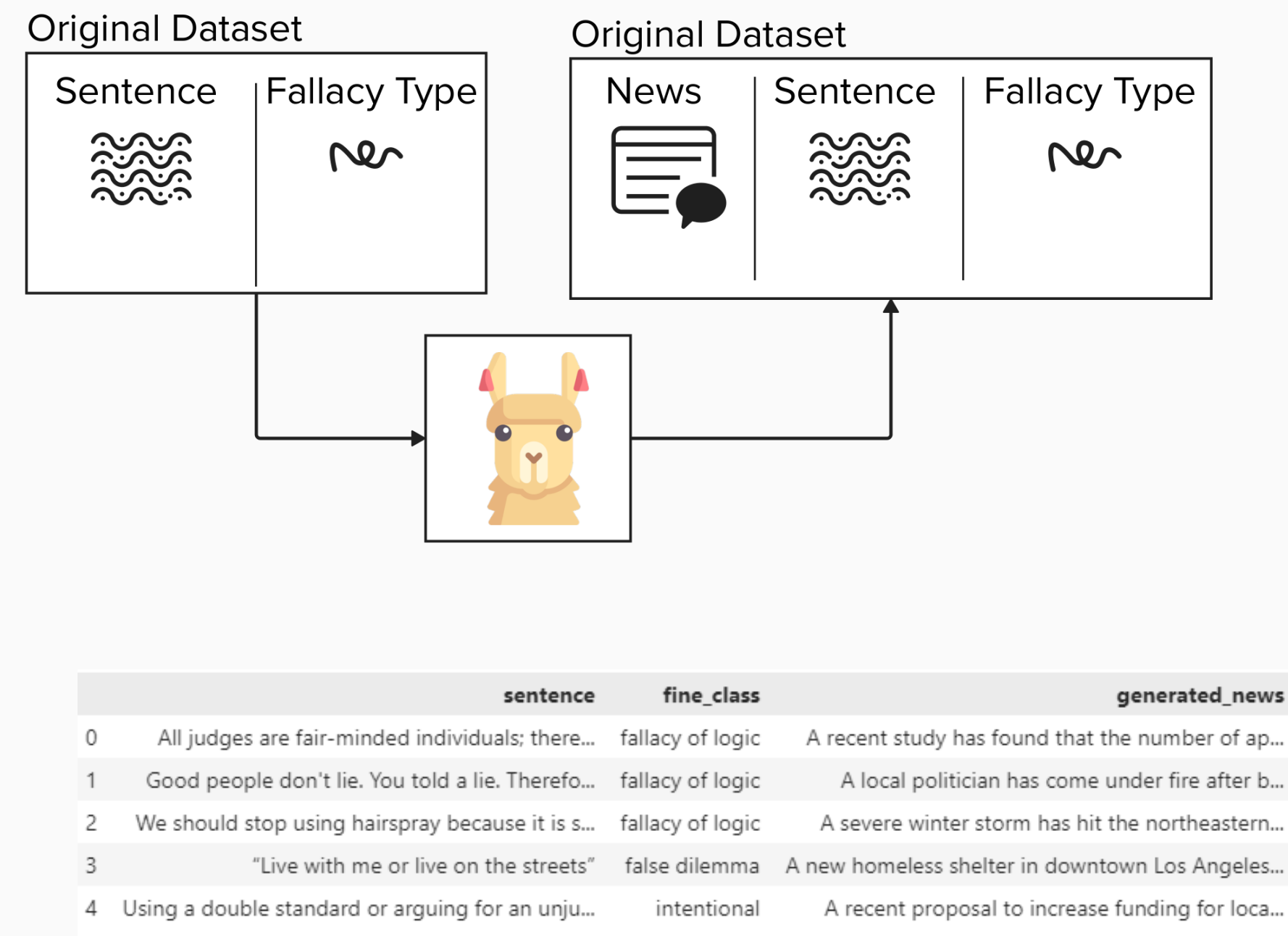


Ministero delle Imprese
e del Made in Italy

1. WebScraping Agent



2. Data Augmentation



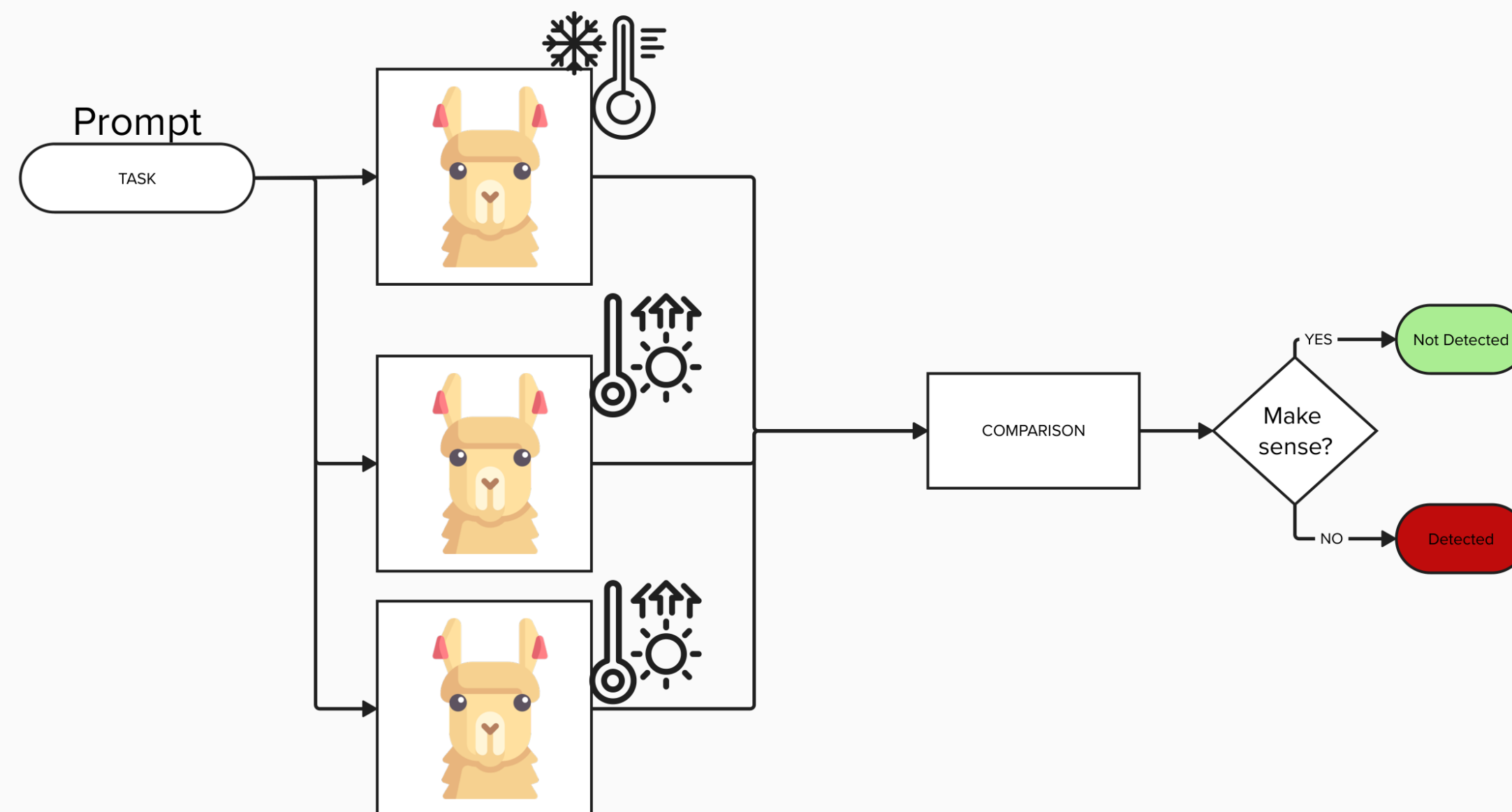
3. Simple Hallucination Detection

Definition according to IBM - Hallucinationc

AI hallucination is a phenomenon wherein a large language model (LLM)—often a generative AI chatbot or computer vision tool perceives patterns or objects that are nonexistent or imperceptible to human observers, creating outputs that are nonsensical or altogether inaccurate.

Famous Hallucinations

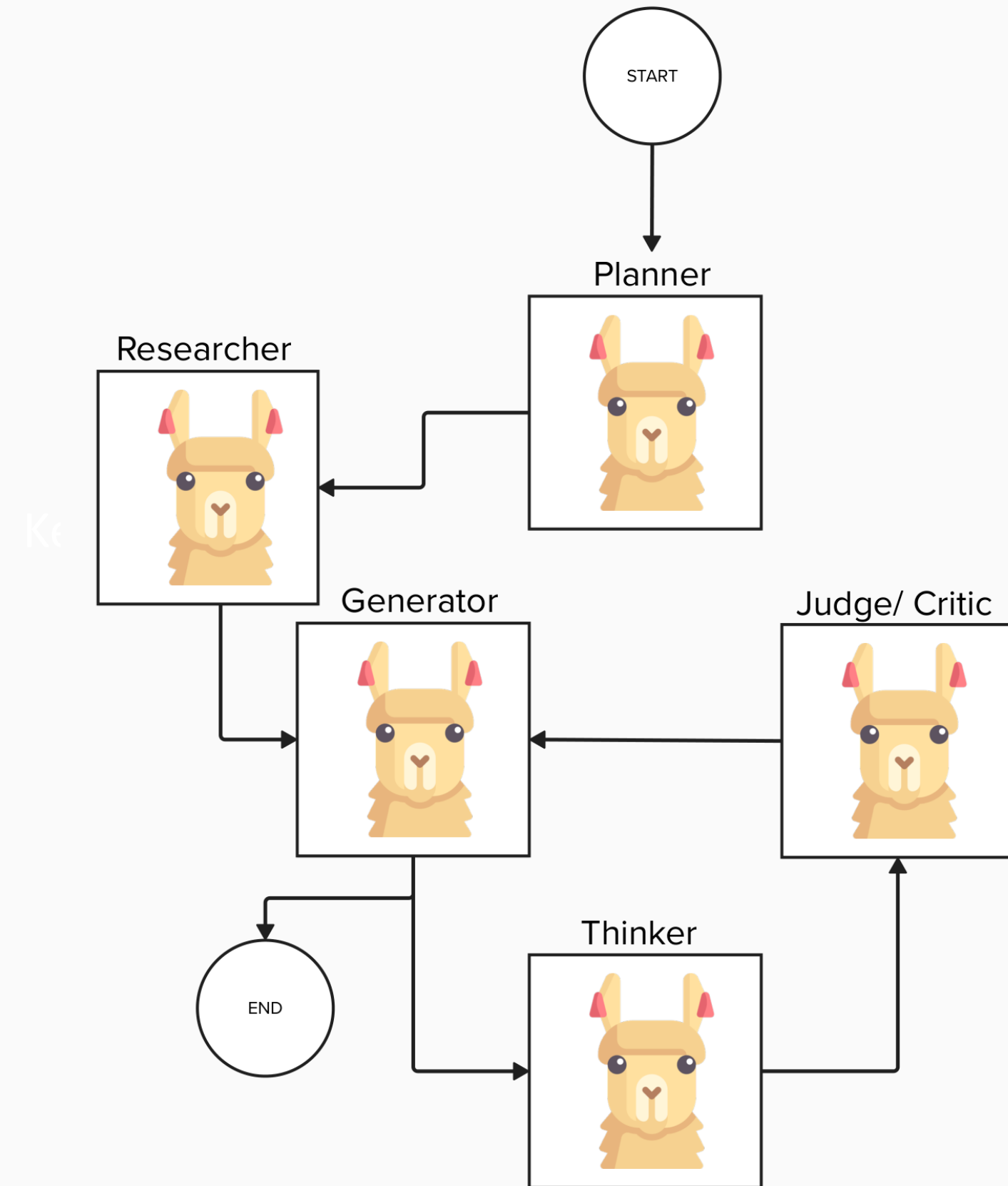
- Google’s Bard chatbot incorrectly claiming that the James Webb Space Telescope had captured the world’s first images of a planet outside our solar system.
- Microsoft’s chat AI, Sydney, admitting to falling in love with users and spying on Bing employees.
- Meta pulling its Galactica LLM demo in 2022, after it provided users inaccurate information, sometimes rooted in prejudice.



4. Writer / Reporter

5 Different Agents – same model, different task

- Planner
- Researcher
- Generator
- Judge/ Critic
- Thinker



Standards