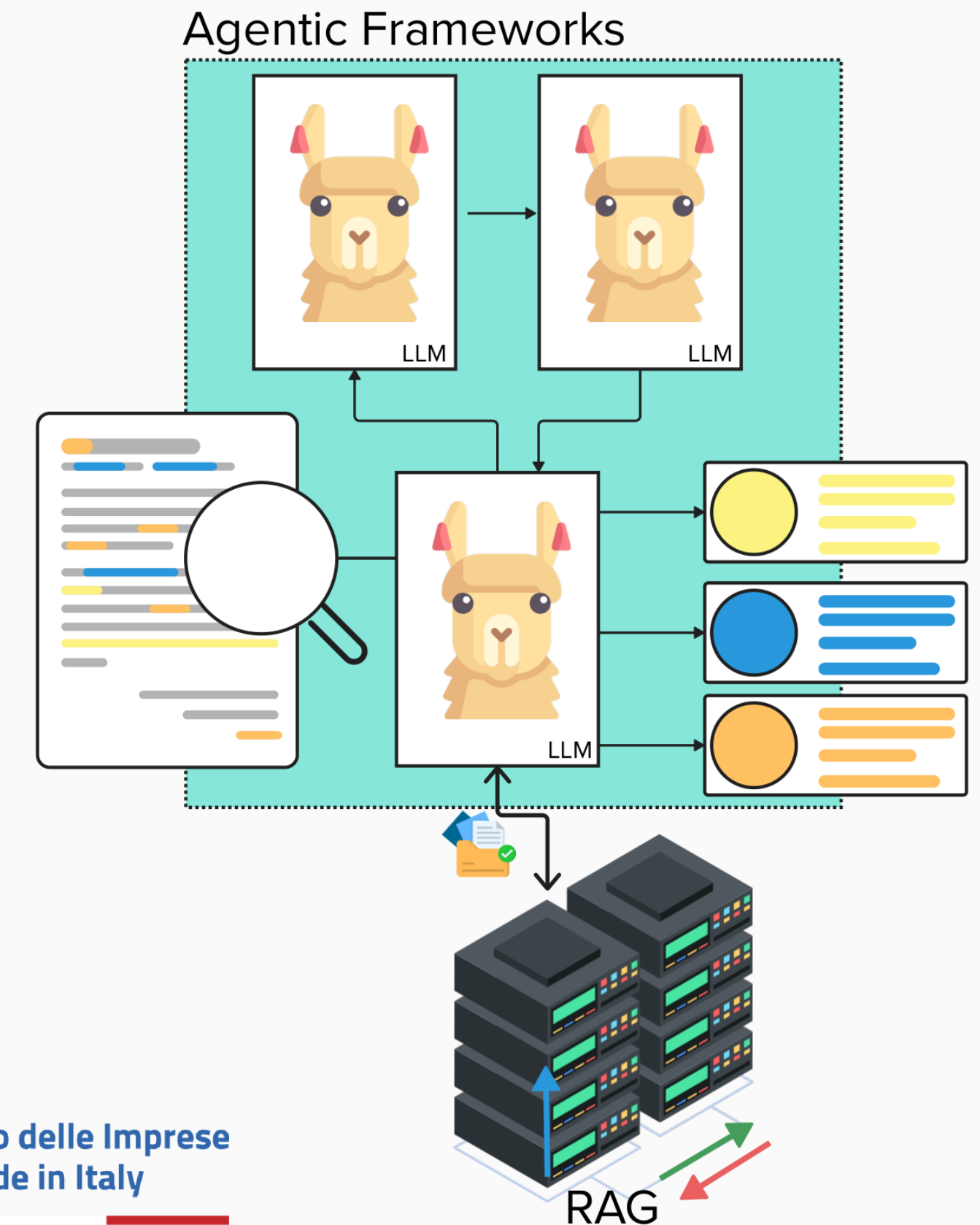
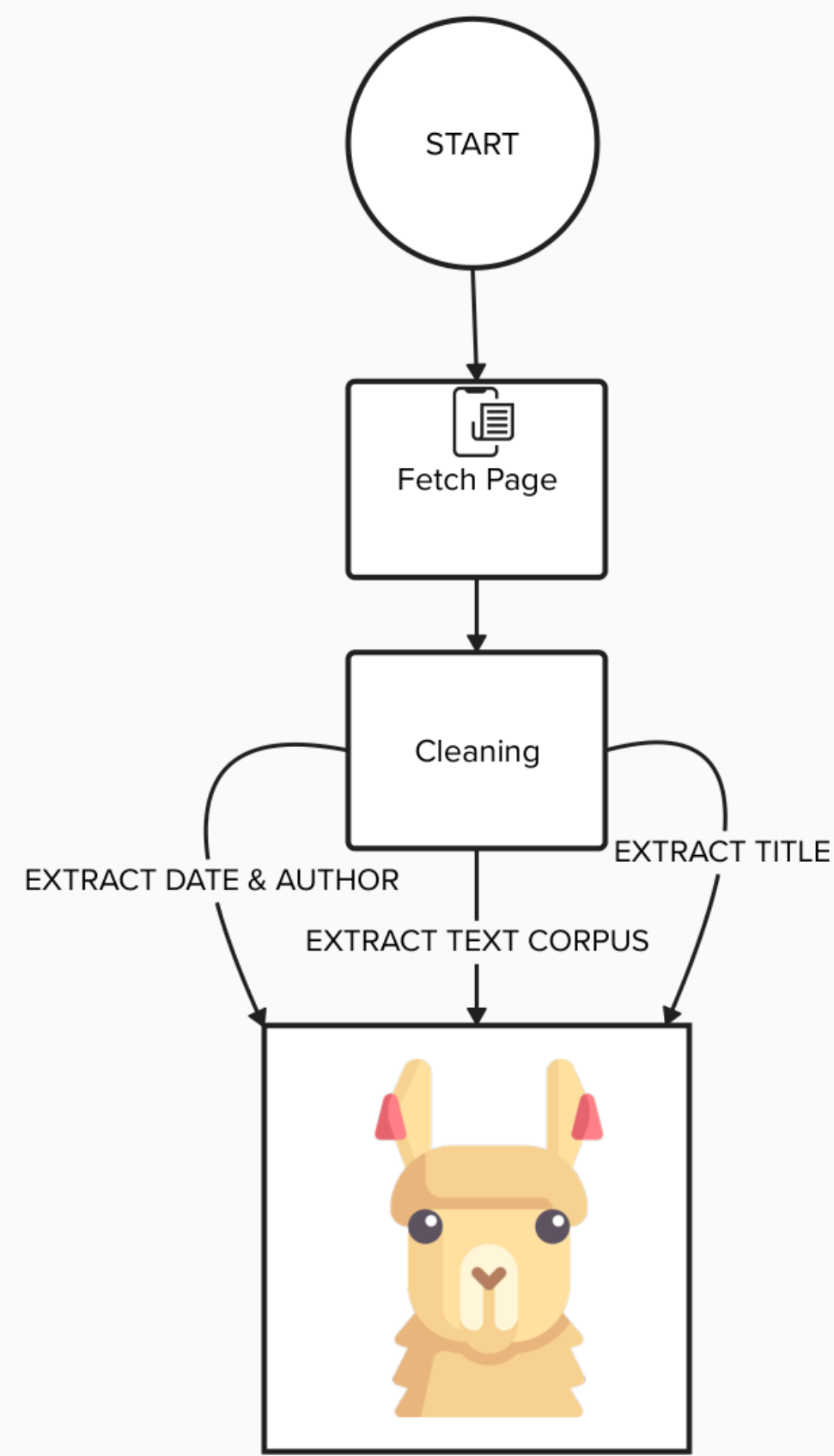


# Complex Applications with Language Models



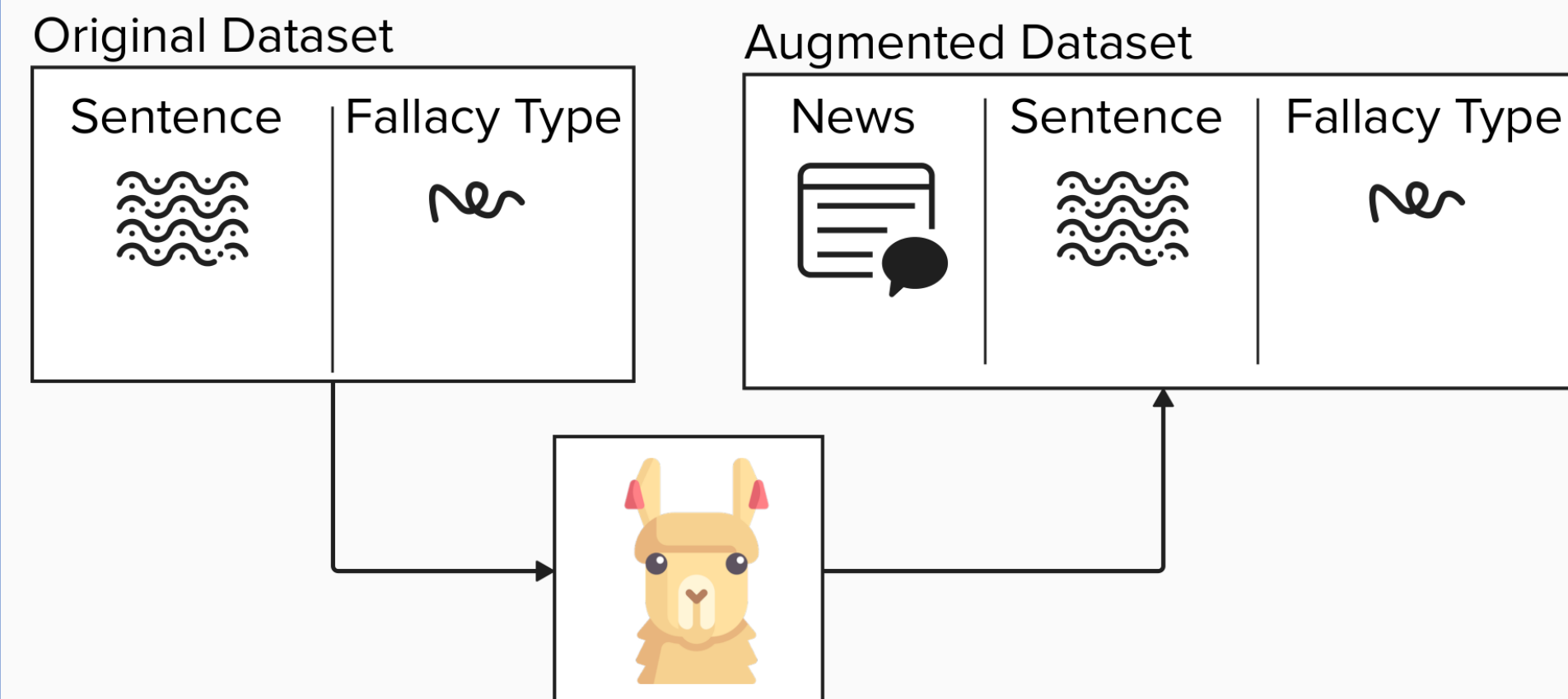
Ministero delle Imprese  
e del Made in Italy

# 1. WebScraping Agent



Standar

# 2. Data Augmentation



	sentence	fine_class	generated_news
0	All judges are fair-minded individuals; there...	fallacy of logic	A recent study has found that the number of ap...
1	Good people don't lie. You told a lie. Therefo...	fallacy of logic	A local politician has come under fire after b...
2	We should stop using hairspray because it is s...	fallacy of logic	A severe winter storm has hit the northeastern...
3	"Live with me or live on the streets"	false dilemma	A new homeless shelter in downtown Los Angeles...
4	Using a double standard or arguing for an unju...	intentional	A recent proposal to increase funding for loca...

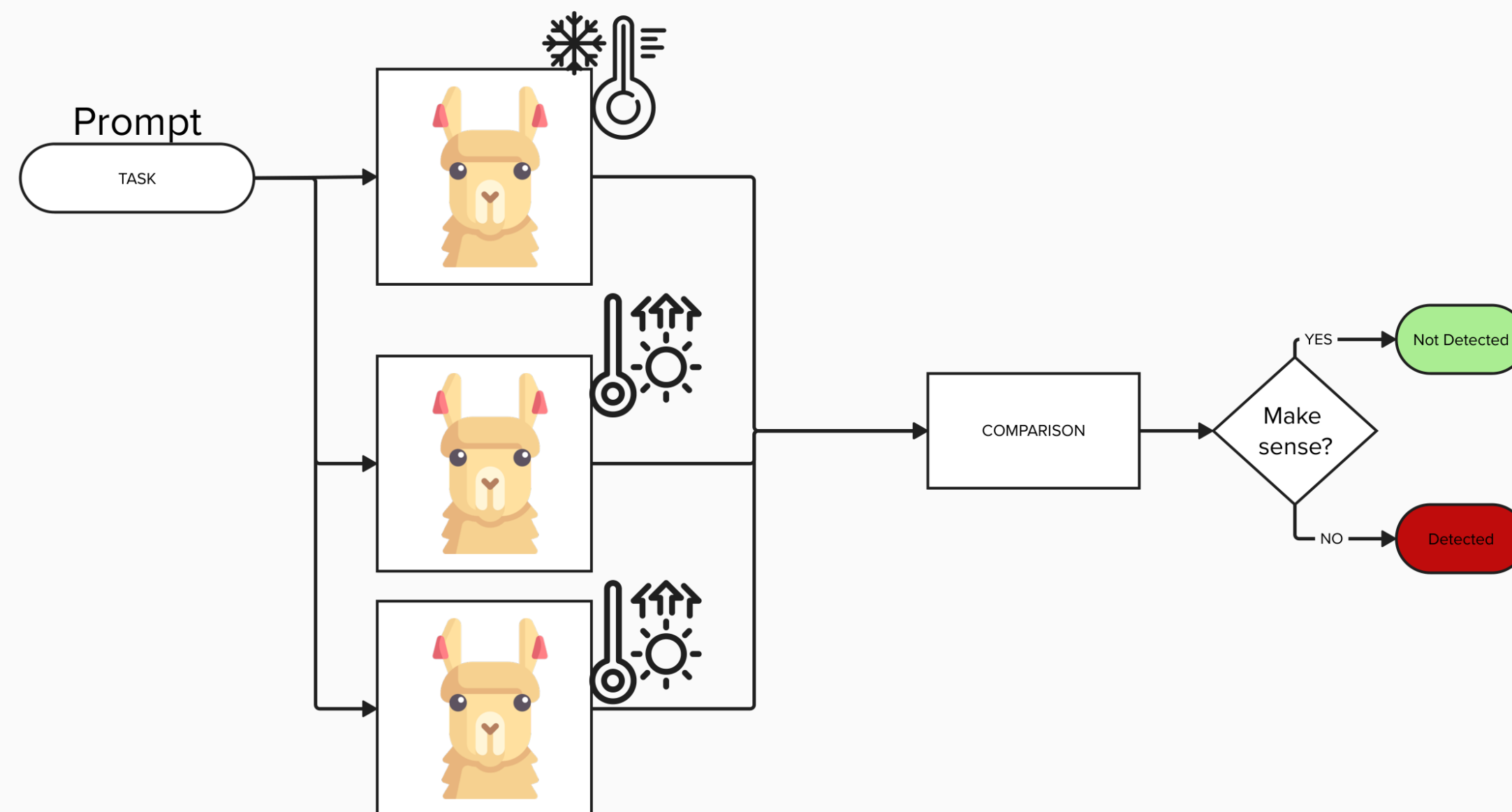
### 3. Simple Hallucination Detection

#### Definition according to IBM - Hallucination

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

