Introduction (2/3 pages)

> context, problem, state-of-the-art, specific problem of the thesis, objective/objectives, expected results, structure

context, problem, state-of-the-art, specific problem of the thesis, objective/objectives

context: AI, Generative systems problem: Generative AI system are capable of planning and reaching a goal. Are LLM capable? state-of-the-art: LLM applied to similar problems specific problem of the thesis: objective/objectives: show the effectiveness of an LLM of a typical AI problem (logistics) expected results: a generative system without any reasoning capabilities is able to solve a problem of this type? And to what extent?

Everyone says LLM are incredible for everything. My thesis: let's try to apply them to the delivery problem. A very simple problem, a classic problem for AI, that is composed by:

- a planing problem
- a reasoning problem
- ...

This can be faced in a classic way with PDDL (time intensive), RL. We want to address this with LLMs.

structure (to be done at the end of the thesis)

Chapter 1

> state-of-the-art, background

SOTA: PDDL, RL bg: uncertainty for LLMs papers, conformal prediction, BD, agents,

Chapter 2

Experiment setting (deliveroo.js, GPT, no LLAMA)

Chapter 3

First approach, give everything (no decomposition of the problem)

Chapter 4

Attention visualizer Better prompts Prompt creation accordingly to papers (give a role, where to put the goal, knowno, few-shot working means the prompt is correct) Attetion, encoding base64 Last approach, find the closest cell

Results discussion

This is a generative approach. Path accuracy Heatmaps

Conclusions (2 pages)

> thesis objectives, achieved results, limitations, future developments 59 mins

limitation: token for context limit in stateful