

# Introduction (2/3 pages)

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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

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state-of-the-art, background

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

## Chapter 2

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

## Chapter 3

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

## Chapter 4

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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

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# Conclusions (2 pages)

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

limitation: token for context limit in stateful