Jesús Moral Aranda

jesusmoralaranda@outlook.es jesus.moral-aranda@valeo.com

+34 675 94 54 75

Location: Martos

Age: 24

Education

- University of Seville
B.Sc. in Physics (expected 2025).
B.Sc. in Materials Engineering (expected 2025).

- East China University of Science and Technology (Shanghai, China)
Training in pattern recognition algorithms, artificial intelligence, and advanced materials.

- Gdańsk University of Technology (Gdańsk, Poland) (2024-2025)
Erasmus exchange. Graduate coursework in nanotechnology: quantum chemical computing, quantum mechanics, microscopy techniques, and materials physics.

Skills

- English (B2).
- Programming and tools: Python, MATLAB, Linux, LaTeX, basics on HTML, JS, CSS and DB. EPROC, PUMA, SRM, STR, PLM.
- Experience with 3D printing and design (FreeCAD and Fusion 360 Autodesk).

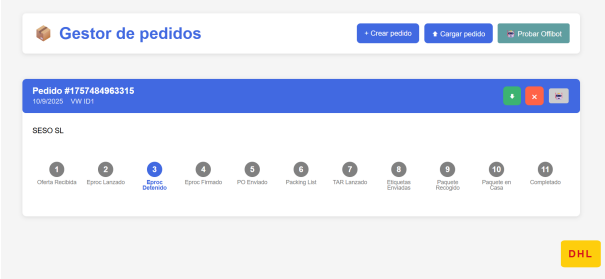
Work Experience

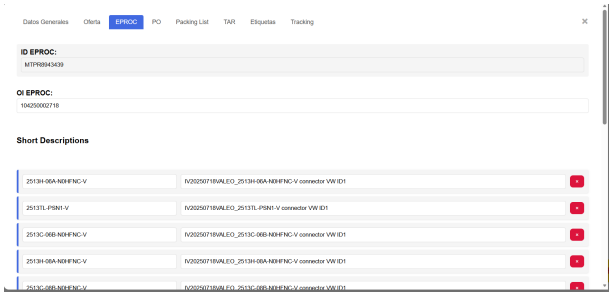
- Referee, Spanish Football Federation (3 years).
- Research and physics laboratory assistant, ECUST (Shanghai).
- Project Purchasing Trainee, Valeo Martos (5 months).

jesus.moral-aranda@valeo.com

Software development miniprojects at Valeo:

Purchasing manager autofill tool

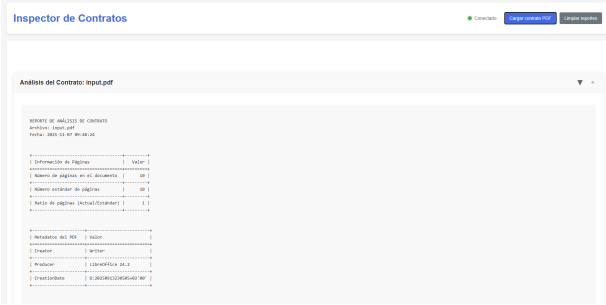


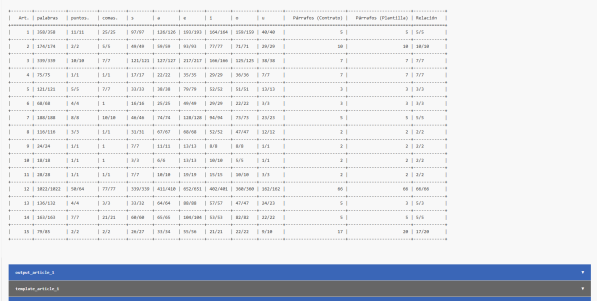


Web interface (main view)

https://drive.google.com/file/d/1vq88cMLhfT8OmDa8-0zI298sVb57ovTB/view?usp=sharing

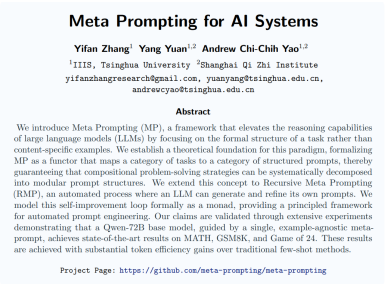
Analysis of non-fraudulent contracts





VLS AI Working Group: Metaprompts for LEA

https://drive.google.com/file/d/11MqypvAvkJLRfX2JnZEsxuEvFIKmlL1M/view?usp=sharing



Meta Prompting for AI Systems

Yifan Zhang[1] Yang Yuan[1,2] Andrew Chi-Chih Yao[1,2]
[1]IIIS, Tsinghua University [2]Shanghai Qi Zhi Institute
yifanzhangresearch@gmail.com, yuanyang@tsinghua.edu.cn,
andrewcyao@tsinghua.edu.cn

Abstract

We introduce Meta Prompting (MP), a framework that elevates the reasoning capabilities of large language models (LLMs) by focusing on the formal structure of a task rather than content-specific examples. We establish a theoretical foundation for this paradigm, formalizing MP as a functor that maps a category of tasks to a category of structured prompts, thereby guaranteeing that compositional problem-solving strategies can be systematically decomposed into modular prompt structures. We extend this concept to Recursive Meta Prompting (RMP), an automated process where an LLM can generate and refine its own prompts. We model this self-improvement loop formally as a monad, providing a principled framework for automated prompt engineering. Our claims are validated through extensive experiments demonstrating that a Qwen-72B base model, guided by a single, example-agnostic meta-prompt, achieves state-of-the-art results on MATH, GSM8K, and Game of 24. These results are achieved with substantial token efficiency gains over traditional few-shot methods.

Project Page: https://github.com/meta-prompting/meta-prompting