

# Caprae Capital Partner Assessment

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**GitHub Repo Link:** [https://github.com/viswha2012/Caprae\\_Capital\\_Partner\\_Leads\\_Tool\\_.git](https://github.com/viswha2012/Caprae_Capital_Partner_Leads_Tool_.git)

**YouTube Demo Link:** <https://youtu.be/r3W6yBv2phA>

The leads application is designed and developed to streamline lead generation process in the aim of making it a one stop platform for all Private Equity and MaaS Services. The system follows a 3-step workflow:

1. **Lead Discovery:** Fetch basic company information from Google Maps API
2. **Lead Enrichment:** Augment data with Apollo.io's organization enrichment API
3. **Outreach Generation:** Use Mistral AI to create personalized outreach emails

## Approach:

- **User Input Layer:** Users enter free-form queries specifying the type of companies they are looking for (e.g., "Health Tech startups in London with Series A funding")
- **LLM Based Query Parser:** We use a local LLM (mistral 7B model running via Ollama) to parse this input and output structured query parameters compatible with our Apollo API.
- **Data Enrichment:** Using the Apollo API and crawl4ai, we enrich each company with metadata such as funding rounds, technology stack, LinkedIn URLs, and company descriptions.
- **Outreach Automation:** For each enriched company, an AI-generated personalized email is created suggesting a meeting to explore M&A or investment opportunities.

## Model Selection: Mistral 7B via Ollama

Reasoning: Mistral is lightweight and efficient for local inference. It displays strong performance in task specific prompt-following. Its open source and idea for secure enterprise deployments. Provides accurate information extraction and professional text generation.

## Data Pre Processing:

- **Query Parsing:** The prompt is templated with a consistent schema so the model can reliably output a Python dictionary with search parameters.
- **Website Crawling:** Using crawl4ai, we extract readable text from company websites to inform the email generation prompt.

## Performance:

- **Accuracy (Manual Checks):** ~90% of parameter extraction from user queries was relevant and correctly formatted.
- **Email Quality:** Emails were rated "professional" and "clear" in tone in user evaluations.
- **Latency:** Each enrichment + email generation takes ~4–7 seconds per company on a local enabled CPU.