

Leveraging the capabilities of LLMs in Questionnaire Generation for HRM

Lucrezia Laraspata, Dr. Fabio Cardilli, Prof. Gennaro Vessio, Prof. Giovanna Castellano

Introduction

HR Questionnaires represents a crucial **decision-support** tool used by HR and Managers to investigate phenomens within their company by collecting **feedback and opinions** from their employees.

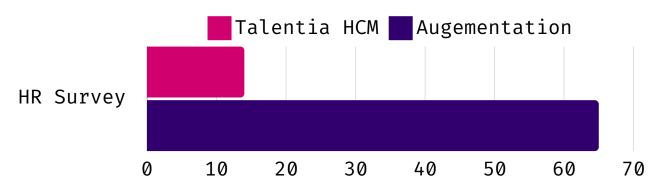
Idea and Objective

Apply **LLMs** to generate *tailored and engaging* surveys to exploit their **text generation** capabilities.

Propose a **comprehensive rigorous approach** to such task, **providing** the **needed materials**.

Dataset creation

A still in progress collection of **surveys** in the field of **HRM** mostly focused on topics like employee motivation.



Augmentation The Data process started with identification of possible topics for HR surveys. Then we demanded to ChatGPT the generation of questionnaires given those topics. Lastly, the correction human and validation of such content was needed.

Output Sample

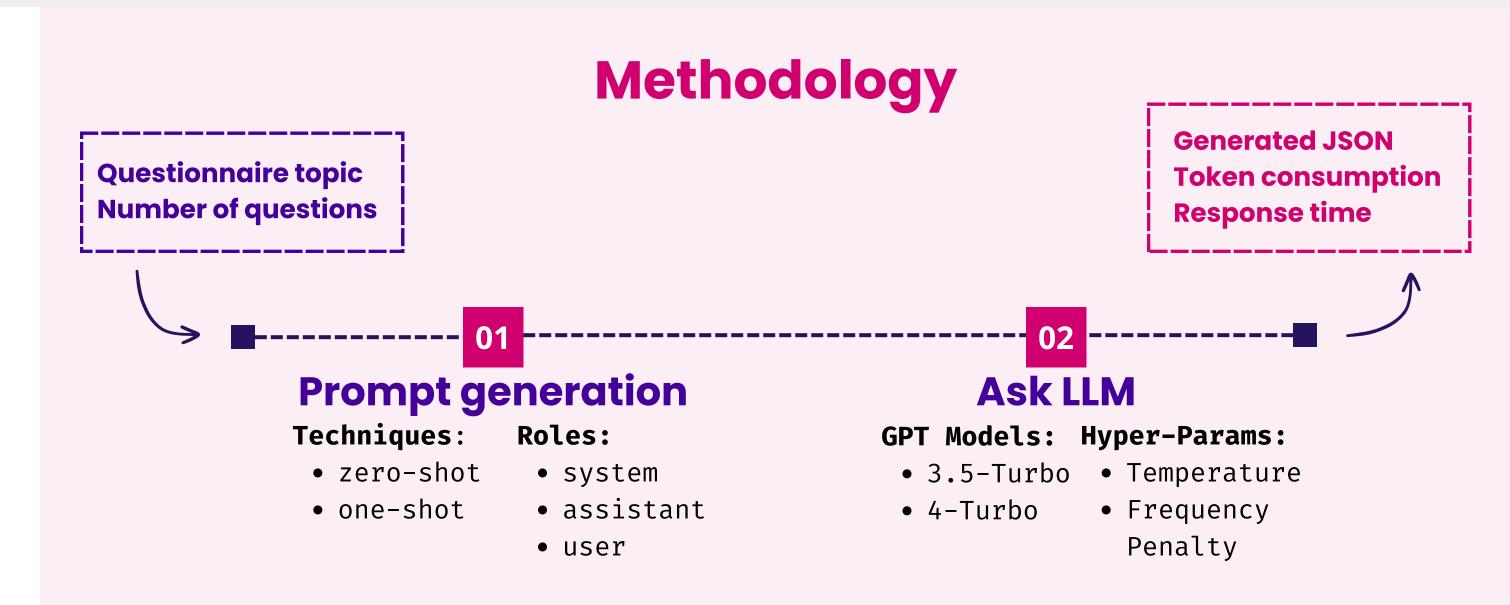
CDQ_001 - What are your career goals for the next 5 years?

- O To get promoted to a higher position within the company.
- To acquire new skills and knowledge that will help me advance in my career.
- To switch to a different career path that aligns better with my interests and passions.
- To start my own business or become selfemployed.

CDQ_002 - What skills do you need to develop to achieve your career goals?

- Leadership and management skills.
- Technical skills related to my field of work.
- Soft skills such as communication, teamwork, and problem-solving.

CDQ_003 - On a scale of 1 to 10, how satisfied are you with your current job?



Results

The assessment encompasses aspects that affect survey's **quality** and **engagement**.

Intraquestionnaire similarity

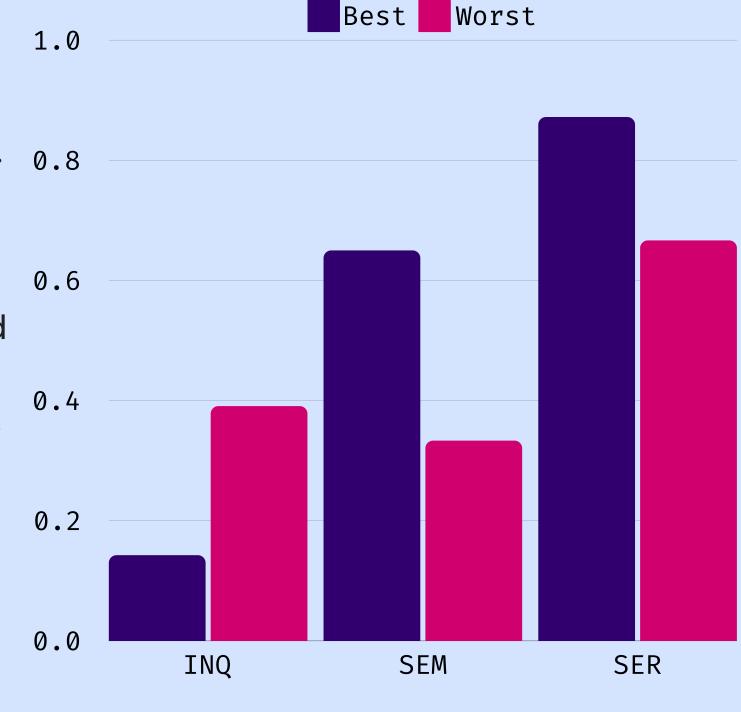
The lower the Rouge-L, the better the quality of the questionnaire as questions are syntactically different.

Semantic similarity

The score weigths the similarity of questions with the ground-truth and that with the main topic, taking into account the questions ordering, too.

Serendipity

By readjusting the metric proposed by Boldi R. et al, the questions' topic diversity was assessed.



Discussion

This study contributes to the research **proposing** a curated **dataset** and a **rigorous approach** to evaluate the quality of generated content.

The proposed methodology led to satisfactory results. Its impact on a real-context of application will be deepen together with Talentia's customers.