



### Base dataset

Group	V1	V2	V3
1	12	80	No
2	3	78	Yes

### FactoMineR::catdes

**drop.negative:** ignore negative v-tests?

### Group descriptions

**isolate.groups:** one prompt per group?

### Base prompt

# Introduction

{introduction}

# Task

{request}

# Data

{sentences from catdes}

### Generated prompt

# Introduction

These data were collected after a survey on students' expectations of agribusiness studies. Participants had to rank how much they agreed with 38 statements about possible benefits from agribusiness studies; then, they were asked personal questions. They were then split into groups based on their answers.

# Task

Please summarize the priorities of each group of students. Then, based on your conclusions, give each group a name.

# Data

## Group "1":

The following answers appear \*more\* often:  
 \* "know how to lead a team": disagree  
 \* "be able to lead meetings": disagree  
 \* "reduce ultra-processing": agree

## Group "2":

The following answers appear \*more\* often:  
 \* "create my own company": totally agree  
 \* "master artificial intelligence": agree

### Additional parameters:

- **model:** the LLM model you want to use
- **row.w:** optional row weights (see FactoMineR's catdes)
- **proba:** the significance threshold (see FactoMineR's catdes)
- **generate:** whether to generate the response or not



### # Introduction

These data were collected after a survey on students' expectations of agribusiness studies. Participants had to rank how much they agreed with 38 statements about possible benefits from agribusiness studies; then, they were asked personal questions. They were then split into groups based on their answers.

### # Task

Please summarize the priorities of each group of students. Then, based on your conclusions, give each group a name.

### # Data

#### ## Group "1":

The following answers appear \*more\* often:

\* "know how to lead a team":

disagree

\* "be able to lead meetings":

disagree

\* "reduce ultra-processing": agree

#### ## Group "2":

The following answers appear \*more\* often:

\* "create my own company": totally agree

\* "master artificial intelligence": agree

### The introduction

- Give context for the data
- Explain that the individuals were split into groups
- Do not hesitate to repeat important words several times

### The request

- Use clear words: explain, describe, summarize...
- Use the same words as in the introduction
- When there are multiple instructions, separate them into different sentences or with commas

### More tips

- Turn the **generate** parameter to FALSE to check your prompt and see if it needs editing
- If the variable names are shortened, rename them into long, complete and unambiguous names
- Both **isolate.groups** and **drop.negative**, when set to TRUE, can reduce the complexity of prompts and help a LLM understand them better
- Do not hesitate to store the prompt in a variable and replace parts of it (with gsub for example) if necessary



### Input

```
library(NaileR)
library(FactoMineR)

data("agri_studies")

set.seed(1)

res_mca_agri = MCA(agri_studies, quali.sup = 39:42,
ncp = 30, level.ventil = 0.05, graph = F)

res_hcpc_agri = HCPC(res_mca_agri, nb.clust = 3,
graph = F)
don_clust_agri = res_hcpc_agri$data.clust

intro = "These data were collected after a survey on
students' expectations of agribusiness studies.
Participants had to rank how much they agreed with
38 statements about possible benefits from
agribusiness studies; then, they were asked personal
questions. They were then split into groups based on
their answers."
requ = "Please summarize the priorities of each
group of students. Then, based on your conclusions,
give each group a name."

res_agri = nail_catdes(don_clust_agri, num.var = 43,
introduction = intro, request = requ, drop.negative
= T)

cat(res_agri$response)
```

### Output

Based on the data, here are the priorities of each group:

#### \*\*Group 1\*\*

\* Priorities: creating healthy products, transparency to consumers, reducing ultra-processing, and acquiring skills about the product and its process.  
\* Group name: "Sustainability Advocates". This group is focused on promoting sustainable practices in agribusiness, prioritizing consumer awareness, and developing skills related to product development.

#### \*\*Group 2\*\*

\* Priorities: creating one's own company, ensuring sanitary quality of products, finding new technologies for innovative products, and rethinking endangered agricultural jobs.  
\* Group name: "Entrepreneurial Visionaries". This group is driven by entrepreneurial spirit, seeking to create their own companies and innovate in the agribusiness sector.

#### \*\*Group 3\*\*

\* Priorities: designing superior quality products, getting a position of responsibility after studies, minimizing depletion of natural resources, and promoting endangered agricultural jobs.  
\* Group name: "Leadership Ambassadors". This group is focused on leadership development, prioritizing product quality, and taking responsibility in the agribusiness sector.

### Notes:

- **drop.negative** was set to TRUE to simplify the prompt
- **isolate.groups** was kept to FALSE (default value) to allow comparisons between groups and help make the final group descriptions more distinct