Iterative Prompt Development

return response.choices[0].message["content"]

In this lesson, you'll iteratively analyze and refine your prompts to generate marketing copy from a product fact sheet.

Setup

```
In [1]:
```

Generate a marketing product description from a product fact sheet

In [3]:

```
fact_sheet chair = """
OVERVIEW
- Part of a beautiful family of mid-century inspired office furniture,
including filing cabinets, desks, bookcases, meeting tables, and more.
- Several options of shell color and base finishes.
- Available with plastic back and front upholstery (SWC-100)
or full upholstery (SWC-110) in 10 fabric and 6 leather options.
- Base finish options are: stainless steel, matte black,
gloss white, or chrome.
- Chair is available with or without armrests.
- Suitable for home or business settings.
- Qualified for contract use.
CONSTRUCTION
- 5-wheel plastic coated aluminum base.
- Pneumatic chair adjust for easy raise/lower action.
DIMENSIONS
- WIDTH 53 CM | 20.87"
- DEPTH 51 CM | 20.08"
- HEIGHT 80 CM | 31.50"
- SEAT HEIGHT 44 CM | 17.32"
- SEAT DEPTH 41 CM | 16.14"
OPTIONS
- Soft or hard-floor caster options.
- Two choices of seat foam densities:
medium (1.8 lb/ft3) or high (2.8 lb/ft3)
- Armless or 8 position PU armrests
MATERIALS
SHELL BASE GLIDER
- Cast Aluminum with modified nylon PA6/PA66 coating.
- Shell thickness: 10 mm.
SEAT
- HD36 foam
COUNTRY OF ORIGIN
- Italy
```

```
prompt = f"""
Your task is to help a marketing team create a
description for a retail website of a product based
on a technical fact sheet.

Write a product description based on the information
provided in the technical specifications delimited by
triple backticks.

Technical specifications: ```{fact_sheet_chair}``
"""
response = get_completion(prompt)
print(response)
```

Introducing our stunning mid-century inspired office chair, the perfect addition to any home or business setting. Part of a beautiful family of office furniture, including filing cabinets, desks, bookcases, meeting tables, and more, this chair is available in several options of shell color and base finishes to suit your style. Choose from plastic back and front upholstery (SWC-100) or full upholstery (SWC-110) in 10 fabric and 6 leather options.

The chair is constructed with a 5-wheel plastic coated aluminum base and features a pneumatic chair adjust for easy raise/lower action. It is available with or without armrests and is qualified for contract u se. The base finish options are stainless steel, matte black, gloss w hite, or chrome.

Measuring at a width of 53 cm, depth of 51 cm, and height of 80 cm, w ith a seat height of 44 cm and seat depth of 41 cm, this chair is designed for ultimate comfort. You can also choose between soft or hard-floor caster options and two choices of seat foam densities: medium (1.8 lb/ft3) or high (2.8 lb/ft3). The armrests are available in eith er an armless or 8 position PU option.

The materials used in the construction of this chair are of the highe st quality. The shell base glider is made of cast aluminum with modified nylon PA6/PA66 coating and has a shell thickness of 10 mm. The se at is made of HD36 foam, ensuring maximum comfort and durability.

This chair is made in Italy and is the perfect combination of style a nd functionality. Upgrade your workspace with our mid-century inspire d office chair today!

Issue 1: The text is too long

• Limit the number of words/sentences/characters.

```
In [5]:
```

```
prompt = f"""
Your task is to help a marketing team create a
description for a retail website of a product based
on a technical fact sheet.

Write a product description based on the information
provided in the technical specifications delimited by
triple backticks.

Use at most 50 words.

Technical specifications: ```{fact_sheet_chair}``
"""
response = get_completion(prompt)
print(response)
```

Introducing our mid-century inspired office chair, perfect for home or business settings. Available in a range of shell colors and base finishes, with or without armrests. Choose from 10 fabric and 6 leather options for full or plastic upholstery. With a 5-wheel base and pneum atic chair adjust, it's both stylish and functional. Made in Italy.

```
In [6]:
```

```
len(response)
```

344

Issue 2. Text focuses on the wrong details

• Ask it to focus on the aspects that are relevant to the intended audience.

```
prompt = f"""
Your task is to help a marketing team create a
description for a retail website of a product based
on a technical fact sheet.

Write a product description based on the information
provided in the technical specifications delimited by
triple backticks.

The description is intended for furniture retailers,
so should be technical in nature and focus on the
materials the product is constructed from.

Use at most 50 words.

Technical specifications: ```{fact_sheet_chair}```
"""
response = get_completion(prompt)
print(response)
```

Introducing our mid-century inspired office chair, perfect for both h ome and business settings. With a range of shell colors and base fini shes, including stainless steel and matte black, this chair is availa ble with or without armrests. The 5-wheel plastic coated aluminum bas e and pneumatic chair adjust make it easy to move and adjust to your desired height. Made with high-quality materials, including a cast al uminum shell and HD36 foam seat, this chair is built to last.

```
prompt = f"""
Your task is to help a marketing team create a
description for a retail website of a product based
on a technical fact sheet.
Write a product description based on the information
provided in the technical specifications delimited by
triple backticks.
The description is intended for furniture retailers,
so should be technical in nature and focus on the
materials the product is constructed from.
At the end of the description, include every 7-character
Product ID in the technical specification.
Use at most 50 words.
Technical specifications: ```{fact_sheet_chair}```
response = get completion(prompt)
print(response)
```

Introducing our mid-century inspired office chair, perfect for home or business settings. With a range of shell colors and base finishes, and the option of plastic or full upholstery, this chair is both styl ish and comfortable. Constructed with a 5-wheel plastic coated alumin um base and pneumatic chair adjust, it's also practical. Available with or without armrests and suitable for contract use. Product ID: SWC-100, SWC-110.

Issue 3. Description needs a table of dimensions

· Ask it to extract information and organize it in a table.

```
prompt = f"""
Your task is to help a marketing team create a
description for a retail website of a product based
on a technical fact sheet.
Write a product description based on the information
provided in the technical specifications delimited by
triple backticks.
The description is intended for furniture retailers,
so should be technical in nature and focus on the
materials the product is constructed from.
At the end of the description, include every 7-character
Product ID in the technical specification.
After the description, include a table that gives the
product's dimensions. The table should have two columns.
In the first column include the name of the dimension.
In the second column include the measurements in inches only.
Give the table the title 'Product Dimensions'.
Format everything as HTML that can be used in a website.
Place the description in a <div> element.
Technical specifications: ```{fact sheet chair}```
response = get_completion(prompt)
print(response)
```

```
< div >
<h2>Mid-Century Inspired Office Chair</h2>
Introducing our mid-century inspired office chair, part of a beaut
iful family of office furniture that includes filing cabinets, desks,
bookcases, meeting tables, and more. This chair is available in sever
al options of shell color and base finishes, allowing you to customiz
e it to your liking. You can choose between plastic back and front up
holstery or full upholstery in 10 fabric and 6 leather options. The b
ase finish options are stainless steel, matte black, gloss white, or
chrome. The chair is also available with or without armrests, making
it suitable for both home and business settings. Plus, it's qualified
for contract use, so you can trust its durability and quality.
<h3>Construction</h3>
The chair features a 5-wheel plastic coated aluminum base and a pn
eumatic chair adjust for easy raise/lower action. You can choose betw
een soft or hard-floor caster options and two choices of seat foam de
```

nsities: medium (1.8 lb/ft3) or high (2.8 lb/ft3). The chair is also available with armless or 8 position PU armrests. <h3>Materials</h3>

The shell base glider is made of cast aluminum with modified nylon PA6/PA66 coating, and the shell thickness is 10 mm. The seat is made of HD36 foam, ensuring comfort and support.

<h3>Product Dimensions</h3> Load Python libraries to view HTML

</div>

```
In [ftd>Width
  53 cm | 20.87"
fromtfPython.display import display, HTML
  Depth
  51 cm | 20.08"
 Height
  80 cm | 31.50"
 \langle t.r \rangle
  Seat Height
  44 cm | 17.32"
 Seat Depth
  41 cm | 16.14"
 <h3>Product ID</h3>
SWC-100, SWC-110
```

display(HTML(response))

Mid-Century Inspired Office Chair

Introducing our mid-century inspired office chair, part of a beautiful family of office furniture that includes filing cabinets, desks, bookcases, meeting tables, and more. This chair is available in several options of shell color and base finishes, allowing you to customize it to your liking. You can choose between plastic back and front upholstery or full upholstery in 10 fabric and 6 leather options. The base finish options are stainless steel, matte black, gloss white, or chrome. The chair is also available with or without armrests, making it suitable for both home and business settings. Plus, it's qualified for contract use, so you can trust its durability and quality.

Construction

The chair features a 5-wheel plastic coated aluminum base and a pneumatic chair adjust for easy raise/lower action. You can choose between soft or hard-floor caster options and two choices of seat foam densities: medium (1.8 lb/ft3) or high (2.8 lb/ft3). The chair is also available with armless or 8 position PU armrests.

Materials

The shell base glider is made of cast aluminum with modified nylon PA6/PA66 coating, and the shell thickness is 10 mm. The seat is made of HD36 foam, ensuring comfort and support.

Product Dimensions

```
Width 53 cm | 20.87"

Depth 51 cm | 20.08"

Height 80 cm | 31.50"

Seat Height 44 cm | 17.32"

Seat Depth 41 cm | 16.14"
```

Product ID

SWC-100, SWC-110

Try experimenting on your own!

```
In [ ]:
```