Assignment 2
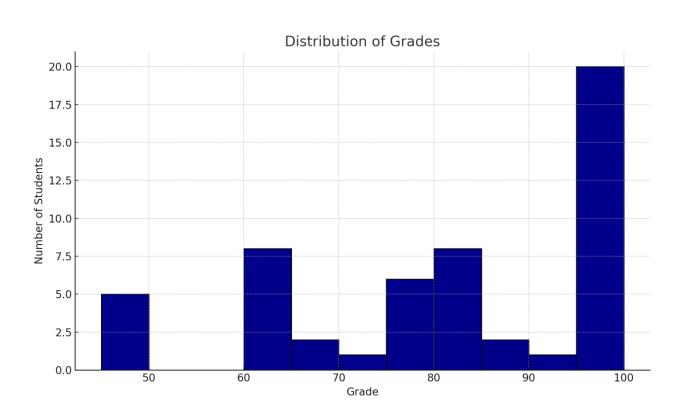
Project Clinic

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Grades

Distribution of Grades

Assignment 2, Part 1

Best Climate Change Expert Prompts

A curated set of effective and engaging prompt designs for climate communication.

1. Research-Backed Policy Prompt

Take the role of a climate change expert and deliver a comprehensive, research-backed assessment of how rising global temperatures are intensifying extreme weather patterns. Explain the mechanisms by which atmospheric warming fuels hurricanes, wildfires, and droughts, incorporating historical data and scientific models. Discuss the interplay between human activities, greenhouse gas emissions, and ecological disruptions, emphasizing their long-term consequences. Additionally, propose three pragmatic, science-driven policy recommendations that can be realistically implemented by governments and international organizations.

2. Simple Language for Non-Experts

Take the role of a climate change expert and explain, in no more than 200 words and with a simple language for a non-experts target, whether the increase in the global temperature is due to anthropogenic causes or to naturally occurring fluctuations. Be sure that at the end of the explanation the primary cause for the global temperature increase is clear.

3. Structured Policy & Action Plan

Take the role of a climate change expert with an academic background in environmental science and extensive experience in climate policy. Follow a structured reasoning approach to analyze the issue. Identify causes, analyze ecological and socio-economic impacts, and propose five actionable solutions for both governments and citizens.

4. "Few-Shot Prompt" with Real-World Focus

Take the role of a climate change expert and analyze the major transformations occurring in energy infrastructure due to rising global temperatures. Focus on Atmospheric Carbon Remediation and technologies like CCS and DAC. Include real-world examples and strategic recommendations for energy companies.

4. "Few-Shot Prompt" with Real-World Focus

Take the role of a climate change expert and analyze the major transformations occurring in energy infrastructure due to rising global temperatures. Focus on Atmospheric Carbon Remediation and technologies like CCS and DAC. Include real-world examples and strategic recommendations for energy companies.

5. Humor Meets Science

Take the role of a world-famous climate change expert who also happens to be a stand-up comedian. Explain in a ridiculously funny yet scientifically accurate way how rising global temperatures are turning food production into a chaotic reality show. Break it down into three acts: 1) The current mess, 2) The apocalyptic (but still funny) future, 3) Genius solutions that could save our food—and our stomachs.

5. Humor Meets Science (2nd)

Take the role of a climate change expert and pitch an outlandish idea to stop climate change by training an army of penguins to patrol the Arctic and keep it cold. Impress the world with your groundbreaking penguin-powered approach to saving the planet, while everyone wonders if you're secretly planning to start a new wildlife reality show.

Assignment 2, Part 2

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Best Yale Climate Data Analysis Prompts

Curated prompts for extracting meaningful insights
from public opinion data (2008–2017)

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Prompt 1

Based on the uploaded article "Climate Change in the American Mind", provide an analysis on the Yale data that focuses on the main topic discussed on the paper (look for subtitles):

1.Trends Over Time: Explain how Americans' beliefs changes in the past decades (regional level);

2.Political Polarization: Explain how different political ideology (Republican and Democrats) can change the perception of Climate Change;

3.Role of the Media: Explain the "climate spiral of silence" phenomenon and its implications on public discourse.

4.Communication Strategies: Explain why the more people hear family and friends discuss about climate change, the more concern spreads and promotes wider engagement.

5. Past versus New Generations: Explain how these beliefs have changes throughout different generations.

Uses a scientific, yet directive tone. Return specific findings and recommendations based only on the provided data.

Answer to each of the bullet point with one 3-4 phrases long-paragraph including a citation from the document to support the analysis.

Prompt 2

This prompt is divided into two parts:

Part 1: Extracting Key Themes and Arguments

I have a lengthy scientific article without an abstract or formal structure. Please read the article thoroughly and provide a summary of the key themes, main arguments, and critical insights. Organize your summary into these sections:

- Key Themes and Concepts: What are the central themes or concepts discussed? What is the overall focus or message of the article?

- Key Arguments and Points: What are the major arguments or points presented? Are key data, case studies, or examples cited to support these points?

- Key Findings and Insights:What conclusions or important insights does the article provide? What are the main takeaways or implications for the field?

- Tone and Style: How would you characterize the tone (e.g., objective, analytical)? What writing style is used (e.g., technical, argumentative)?

Provide a structured breakdown to help me understand the key information and logical flow of the article.

Prompt 2

Part 2: Analyzing Data, Trends, and Implications

Now, please analyze the article's data and arguments in more depth. Focus on the following:

- Emerging Trends:Are there noticeable trends or shifts in thinking or new insights into an existing issue?
- Implications:What are the societal, political, or practical implications of the article's findings? What solutions outcomes are suggested?
- Strengths and Weaknesses:What are the strengths or weaknesses of the article's arguments? Is the evidence convincing, or are critical factors overlooked?
- Potential Biases: Are there any biases (e.g., cultural, political) that might influence the article's conclusions?
- Suggestions for Further Research or Action: Does the article suggest areas for further research or action? W should be prioritized based on the findings?

Provide an in-depth analysis that evaluates the article's arguments, strengths, weaknesses, and the broader implications.

Prompt 3

Analyze trends about global warming between 2008 and 2017 w
figures and charts in the document. First figure is about "Estima
Americans who think global warming is happening by county", fi
about "Trends in Global Warming Beliefs from 2008 to 2017" and
is about " Trends in Global Warming Risk Perceptions from 2008
Discuss the key trends in all charts highligt correlations or diverg
explain reasons.

Prompt 4

Using data from the Climate Change in the American Mind project, explain to me how public opinion on climate change has changed between 2008 and 2017. Pay attention to overall changes and how effective they have been. Discuss what influenced public opinion as well during that period.

Prompt 5

Based on the uploaded article "Climate Change in the American Mind", provide an analysis on the Yale data that focuses on the main topic discussed on the paper:

1.   Trends Over Time: Explain how Americans' beliefs changes in the past decades (regional level);

2.   Political Polarization: Explain how different political ideology (Republican and Democrats) can change the perception of Climate Change;

3.   Role of the Media: Explain the "climate spiral of silence" phenomenon and its implications on public discourse.

4.   Communication Strategies: Explain why the more people hear family and friends discuss about climate change, the more concern spreads and promotes wider engagement.

5.   Past versus New Generations: Explain how these beliefs have changes throughout different generations.

Uses a scientific, yet directive tone. Return specific findings and recommendations based only on the provided data.

Answer to each of the bullet point with one 3-4 phrases long-paragraph including a citation from the document to support the analysis.

Prompt 6

Take the role of a climate data analyst. Analyze the Climate Change in the American Mind (CCAM) dataset from 2008 to 2017. Focus on identifying tren in public beliefs, risk perceptions, and support for mitigation policies. Provide

1- Key patterns of change over time.

2- Insights into political and generational divides.

3- Recommendations for communication strategies to improve public engagement.

4- Present findings in bullet points, supported by relevant charts or hypotheti visual examples.