

Ex.No.10:Content Creation (Reports, Articles, Case Studies, etc.) Using Prompt Patterns

Reg. No.: 212223050012

Name: Dhruv D Mehta

AIM

To demonstrate how various prompting techniques such as query decomposition, decision-making, answer engineering, semantic filtering, tail generation, and menu actions can be used to create detailed reports, articles, case studies, and creative writing using AI models, and to observe how different prompt structures influence the coherence, depth, and quality of the content.

PROCEDURE

1. Studied different prompt patterns including query decomposition, decision-making prompts, answer engineering, fact-check prompting, tail generation, menu-action prompting, and semantic filtering to understand how each affects the output.
 2. Selected two content scenarios for the experiment:
 - (i) **Business Report on Market Trends**
 - (ii) **Sci-Fi Short Story (Creative Writing)**
 3. Created simple baseline prompts for each scenario to produce initial drafts.
 4. Refined the prompts by adding structural instructions, tone requirements, detail levels, and decision-making elements to generate improved drafts.
 5. Used semantic filtering and tail-generation techniques to produce polished final outputs with greater depth, coherence, and clarity.
 6. Evaluated the generated content based on quality, accuracy, creativity, tone, and structure.
 7. Compiled first draft, refined draft, and final version for both selected scenarios.
-

SCENARIO 1 – BUSINESS REPORT ON MARKET TRENDS

FIRST DRAFT (Simple Prompt Output)

Prompt: “Write a short report on current market trends.”

Output:

Global markets are undergoing notable shifts due to technological advancements, evolving consumer behavior, and global economic pressures. Digital transformation remains a primary focus across industries, with companies adopting automation, cloud solutions, and data-driven decision-making. Consumer preferences have moved toward online shopping and sustainability, influencing product design, packaging, and marketing strategies. Supply chain disruptions continue to affect global trade, leading firms to diversify suppliers and strengthen logistical resilience. Markets are expected to maintain a steady transition toward digital-first models in the coming years.

REFINED DRAFT (Using Structured Prompt Patterns)

Prompt:

“Write a structured business report on global market trends using formal tone. Include: Introduction, Key Market Drivers, Consumer Behavior Trends, Technology Influence, and Future Outlook.”

Output:

Title: Global Market Trends – Analytical Overview

Introduction

Global market trends continue to evolve due to geopolitical pressures, technological innovation, and the shift toward sustainable economic models. Businesses are prioritizing efficiency, resilience, and digital integration to remain competitive.

Key Market Drivers

1. **Digital Transformation:** Enterprises are accelerating cloud adoption, automation, and AI integration.
2. **Sustainability & ESG:** Environmental and social governance practices influence investor confidence and consumer loyalty.
3. **Supply Chain Realignment:** Companies are diversifying suppliers and exploring nearshoring options to reduce risk.
4. **Macroeconomic Factors:** Inflation, interest rates, and fiscal policies are shaping financial strategies across sectors.

Consumer Behavior Trends

- Preference for seamless omnichannel experiences.
- Increased demand for eco-friendly and ethically sourced products.
- Personalization powered by data analytics and AI.

Technology Influence

AI, cloud computing, and automation continue to redefine operational models. Businesses adopting these technologies experience improved decision-making, higher productivity, and enhanced customer engagement.

Future Outlook

Over the next 3–5 years, industries are expected to invest heavily in digital modernization, sustainable operations, and regionalized supply chains. Organizations that integrate advanced technologies with consumer-centric strategies will hold competitive advantage.

FINAL POLISHED REPORT (Semantic Filtering + Tail Generation)

Prompt:

“Rewrite the report in a consulting-level tone. Ensure factual clarity. Extend the Future Outlook section with detailed 5-year projections and strategic recommendations for leaders.”

Output:

Title: Strategic Global Market Trends Report (2025–2030)

Executive Summary

Global markets are entering a transformative phase driven by accelerated digital adoption, ESG-centered policies, and supply chain resilience strategies. This report analyzes emerging market patterns, technological drivers, and shifting consumer expectations, providing a 5-year strategic outlook designed for senior leadership.

Market Drivers

Digitalization is becoming foundational across industries. Organizations investing in AI, automation, and data platforms demonstrate superior operational efficiency. ESG expectations from consumers and regulators are prompting companies to redesign product portfolios and implement transparent reporting frameworks. Supply chain restructuring remains a priority as firms pursue nearshoring and multi-sourcing to minimize disruption.

Consumer Trends

Consumers are increasingly choosing brands that offer trust, transparency, and personalization. Sustainability-minded purchasing, subscription-based models, and seamless omnichannel experiences are shaping demand patterns.

Technology Influence

AI and machine learning are evolving from optional enhancements to mandatory enterprise

functions. Cloud and edge architectures support faster product development and real-time analytics. Automation is reducing operational costs and reshaping workforce expectations.

Five-Year Strategic Outlook (2025–2030)

- **2025–2026:** Expansion of AI-driven decision systems and customer insights platforms.
- **2027:** Heightened regulatory focus on ESG transparency and data governance.
- **2028:** Regional supply chains become mainstream; nearshoring investments grow.
- **2029:** Subscription and service-based business models dominate consumer markets.
- **2030:** Firms with integrated digital ecosystems and sustainable operations outperform global benchmarks.

Strategic Recommendations

1. Invest in data infrastructure and enterprise-wide AI capabilities.
 2. Prioritize ESG alignment in product design and supplier selection.
 3. Strengthen supply chain resilience through diversification and nearshoring.
 4. Adopt agile operational structures and continuous workforce upskilling.
-

SCENARIO 2 – CREATIVE WRITING: SCI-FI SHORT STORY

FIRST DRAFT (Simple Prompt Output)

Prompt: “Write a short sci-fi story.”

Output:

Mira arrived at Station Nine, a massive floating city filled with drones, neon lights, and endless noise. She was searching for her missing sister, who had vanished without explanation. After following clues, Mira discovered an ancient machine hidden in the underbelly of the station. When she activated it, the machine displayed fragments of memories—some hers, some belonging to strangers. Mira realized the machine could manipulate time and consciousness. As the lights intensified, she braced herself for whatever truth it would reveal.

REFINED STORY (Decision-Making + World-Building + Conflict + Twist)

Prompt:

“Rewrite the story with a mysterious tone, deeper world-building, clear character motivation, a major conflict, and a twist ending.”

Output:

Mira stepped into the neon-drenched corridors of Station Nine with a single purpose: to uncover what happened to her sister Noor. The station was a maze of elevated rail lines, glowing markets, and shadowed alleys where android vendors whispered coded secrets. Her only clue was an encrypted coordinate Noor left behind.

Mira followed the trail deep beneath the city, where she met Kade, a former archivist who warned her of a forbidden device known as the Echo. According to legend, the Echo preserved memories that the central authority erased.

Against Kade’s warnings, Mira activated the Echo. Holographic memories bloomed—Noor pleading with someone, alarms blaring, a decision being made in desperation. Conflict erupted when security drones detected the activation. Mira and Kade fought to protect the Echo.

The twist came when Mira accessed the final memory: an older version of herself telling Noor to hide the coordinate. The Echo wasn’t just storing memories—it was bending time, looping identities. Mira realized she was part of an unfinished pattern the machine had been weaving for years.

FINAL POLISHED STORY (Cinematic Tone + Semantic Filtering + Extended Ending)

Prompt:

“Rewrite the story in a cinematic style with vivid visuals, emotional depth, smooth transitions, and extend the ending with a powerful resolution.”

Output:

Title: The Echo Beneath Station Nine

The transit gates opened with a hiss, letting Mira into the living pulse of Station Nine—a city suspended among the stars, wrapped in rivers of neon and drifting holograms. Mag-rails streaked across the dome like metal constellations. Vendors shouted prices in warm digital tones. But Mira saw none of it. She was searching for Noor.

Her sister's last recorded transmission contained only an encrypted coordinate buried in a corrupted archive. Clutching that fragment, Mira navigated the underlevels, where the air grew colder and lights flickered like fading memories.

There she found Kade, a quiet man carrying the weight of hidden knowledge. He spoke of the Echo—a machine abandoned by the station's founders. Not a tool. Not a weapon. A memory engine capable of preserving truths the authorities wanted forgotten.

When Mira activated it, the Echo awakened like a creature remembering its name. Light spiraled around her. Noor appeared, caught in a frantic moment—uploading something, looking back in fear, and disappearing into static. Security forces descended, forcing Mira and Kade to flee through collapsing tunnels.

In the final chamber, Mira accessed the Echo one last time. A projection formed: her own face, older, tired but resolute. "If you're seeing this," the future Mira said, "Noor's message is only the beginning. Do not let them erase us."

The revelation shattered her understanding of time. The Echo had intertwined their lives across timelines, folding memories into destiny. Mira realized she wasn't closing Noor's story—she was stepping into her own beginning.

When she emerged into the neon dawn, word had already spread. Screens across the station flickered with forbidden memories the Echo had released during its activation. People were remembering truths long buried.

Mira walked into the rising light with purpose. She would protect the Echo. Not for Noor alone, but for everyone whose stories deserved to be remembered.

RESULT

The creation of detailed reports and narratives using prompting techniques was successfully demonstrated. By applying query decomposition, answer engineering, semantic filtering, decision making, and tail generation, both analytical and creative content were developed with increasing coherence, depth, and structure across drafts. The experiment clearly shows that structured prompting significantly improves the quality of AI-generated content.