

and Cloud R
emer Exce
& Karan mand

2024 Annual Symposium



AI



About Me

Mahesh Deshpande



Senior Principal Consultant
@ Genpact



VP - Mentorship Leadership
@ PMI San Francisco



Judging Committee Member
@ PMO Global Awards 2024



About Me

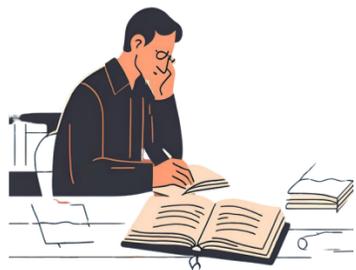
Karanveer Anand



Senior Technical Program Manager
@ Google



Board of Advisor @ SJSU & UCI



Author of Course on Program
Management



Today's Agenda

**Generative
AI**



**Project
Management**



PMO's are Transforming



Master Prompt Engineering



Use Cases of AI in PMO

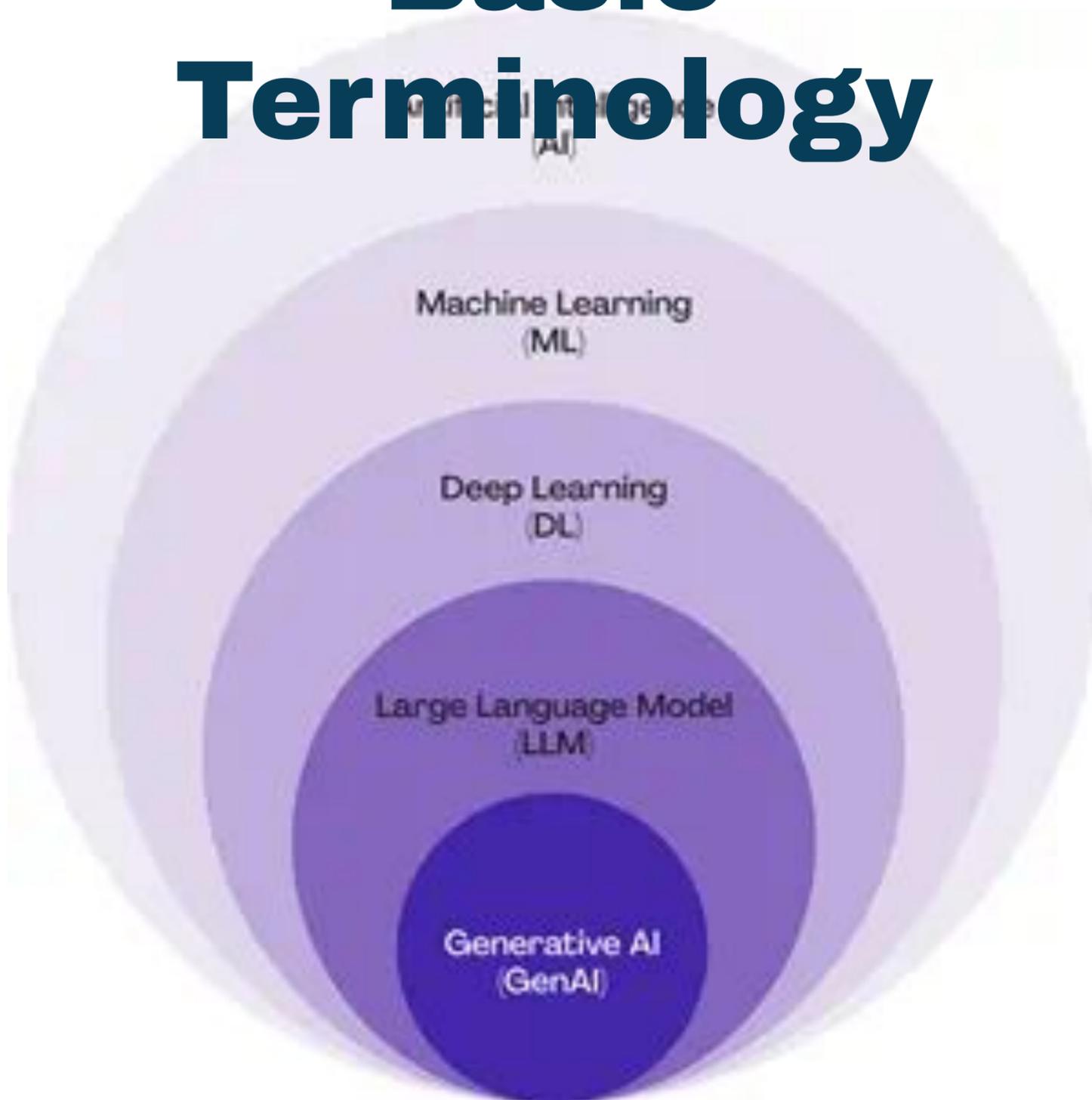
Generic Use Case for PMs

AI in Cloud Reliability Use Case



Data Analytics Programs Use Case
Skillsets for PMs in the Next Gen PMOs

AI Basic Terminology



Machine Learning: Machine learning (ML), a core AI component, empowers computers to **learn from and make decisions based on data without being explicitly programmed.**

Deep Learning: Deep learning, a subset of machine learning, has gained immense popularity due to its effectiveness with capabilities such as **image recognition, natural language processing, and speech recognition.** deep learning is like a child learning to recognize animals

Natural Language Processing: Natural language processing (NLP) is a field of artificial intelligence that focuses on how computers can understand, interpret, and respond to human language in a valuable way.

Transformers: Transformers are a type of neural network architecture used in NLP and AI systems like ChatGPT. **Once you train a transformer using large amounts of data, it can create completely new data by improvising.** Google discovered the transformer architecture in 2017.

Generative Pretrained Transformer: (GPT), developed by OpenAI, is an AI model designed for NLP tasks. **It operates on the transformer architecture, which**

Why Artificial Intelligence Matters?

7%

global GDP growth
expected due to
Generative AI
in the next 10 years
(Goldman Sachs Report)

91%

believe AI will have at
least a moderate impact
on the project
management profession
(PMI Research)

60%

of workforce will require
upskilling and reskilling in
the next 3 years
(World Economic Forum -
Future of Jobs Report)

References:

1. www.goldmansachs.com/intelligence/pages/generative-ai-could-raise-global-gdp-by-7-percent.html
2. www.pmi.org/learning/thought-leadership/ai-impact/shaping-the-future-of-project-management-with-ai
3. www.weforum.org/publications/the-future-of-jobs-report-2023/digest/



Disclaimer

- This presentation is for informational purposes only and does not constitute an endorsement of any specific large language model (LLM) or platform.
- The ideal LLM for your PMO will depend on your organization's specific needs and AI adoption strategy.
- For demonstration purposes, we will be using Gemini (Google) and Claude (Anthropic)

Generative AI: Transformational

Change One of the primary differences between traditional AI and Generative AI is that the latter can create novel output that appears to be generated by humans

Today, Generative AI models can create outputs in six key modalities.



Text

Written language outputs presented in an accessible tone and quality, with details and complexity aligned with the user's needs.

Examples include summarizing documents, writing customer-facing materials, and explaining complex topics in natural language.



Code

Computer code in a variety of programming languages with the capacity to autonomously summarize, document, and annotate the code for human developers.

Examples include generating code from natural language descriptions and autonomously maintaining code across different platforms.



Audio

Much like textual outputs, audio outputted in natural, conversational, and even colloquial styles with the capacity to rapidly shift among languages, tone, and degrees of complexity.

Examples include Generative AI-powered call centers and troubleshooting support for technicians in the field.



Image

Textual or visual prompts lead the model to create images with varying degrees of realism, variability, and "creativity."

Examples include simulating how a product might look in a customer's home and reconstructing an accident scene to assess insurance claims and liability.



Video

Similar to imagery, Generative AI models can take user prompts and output videos, with scenes, people, and objects that are entirely fictitious and created by the model.

Examples include autonomously generating marketing videos to showcase a new product and simulating dangerous scenarios for safety training.



3D/Specialized

From text or two-dimensional inputs (e.g., images), models can extrapolate and generate data representing 3D objects.

Examples include creating virtual renderings in an omniverse environment and AI-assisted prototyping and design in a purely virtual space.

PMOs across the world are Transforming

FIGURE 1. Project professional GenAI adoption levels



Source: PMI – Generative AI in Project Management Survey, n = 500

*“Skate to where the puck is going to be, not where it has been”
- Wayne Gretzky
(Hockey Legend)*

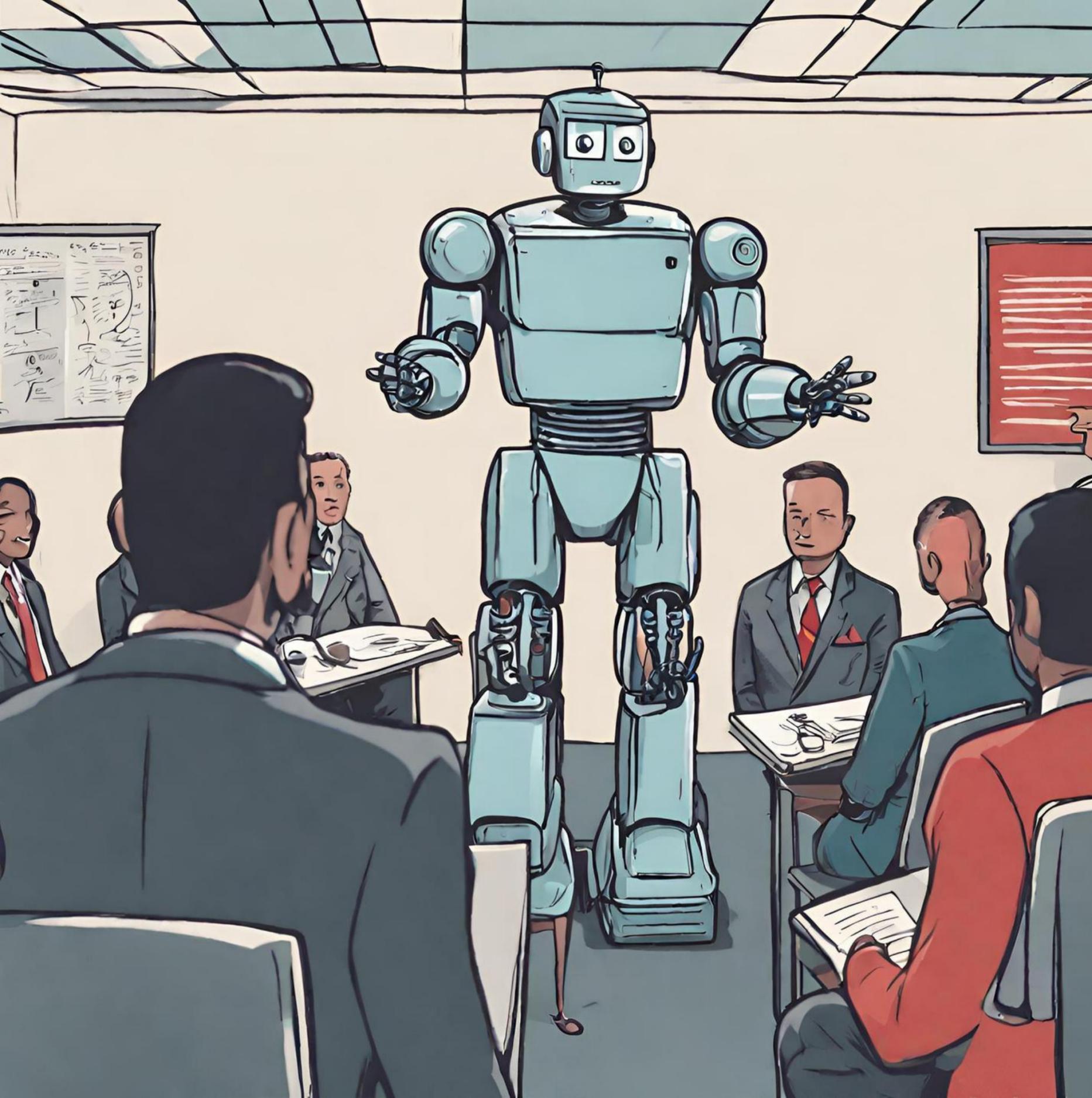
The Best PMOs are adapting to AI changes

AI's IMPACT ON PMO



Let's start with the
Elephant in the Room

Will AI replace
Project Managers?



The AI Project

Manager

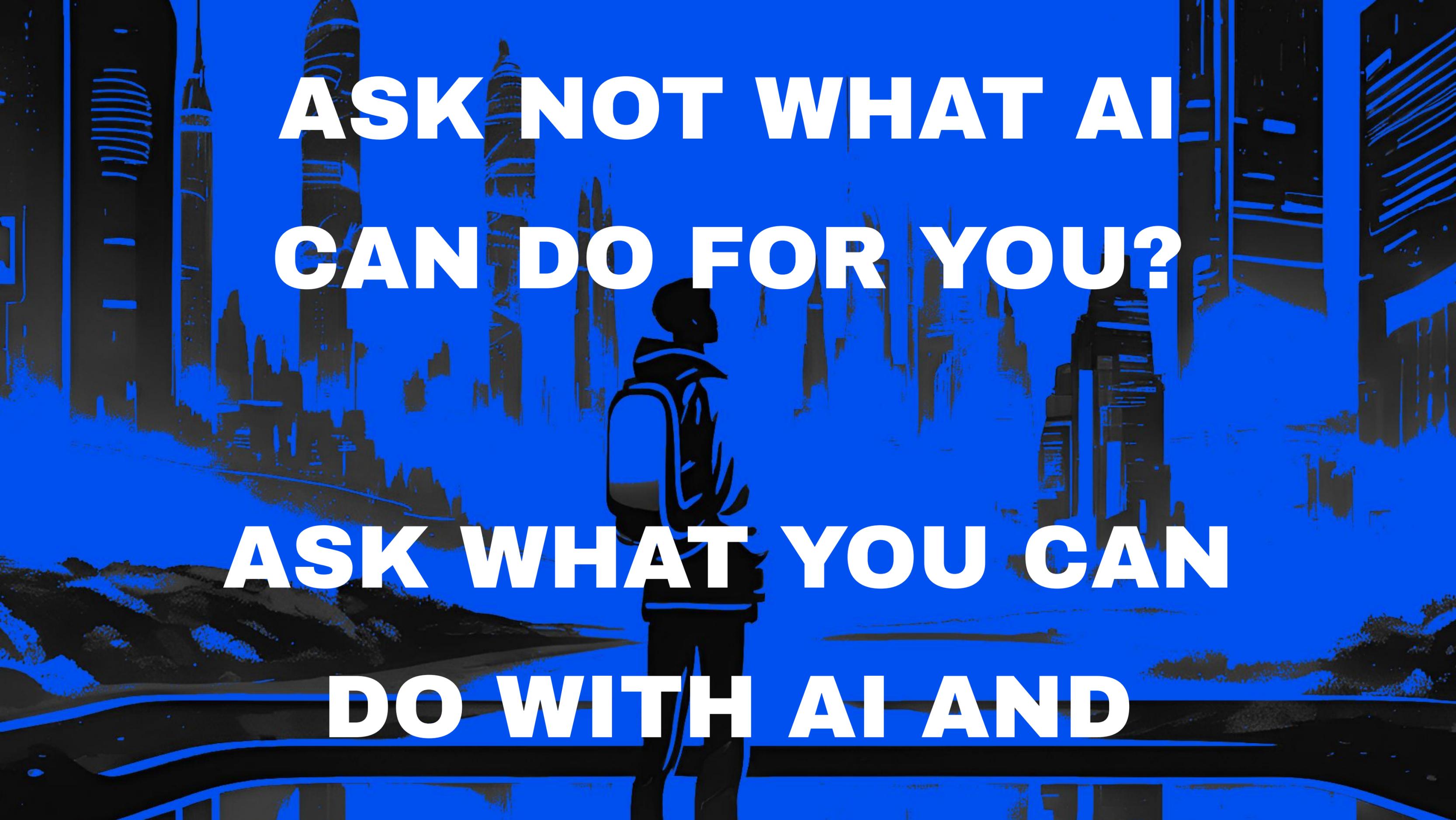
*'Don't worry, team,
I've optimized everything
for maximum efficiency...*

Now excuse me while I

recharge!

Generative AI Value Capture - Use Cases

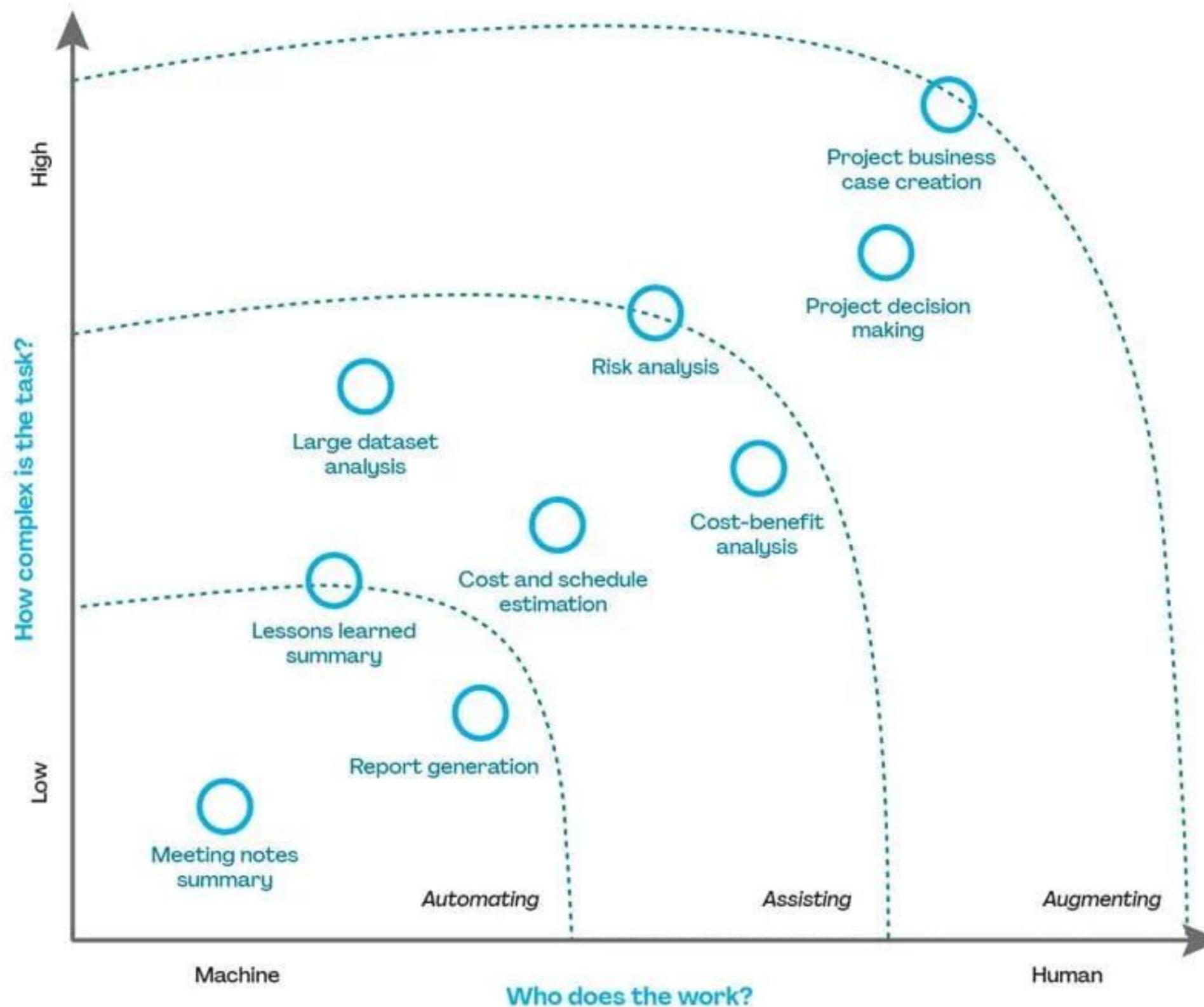
Marketing	<ul style="list-style-type: none">• Marketing Content Generation• Market Research & Competitive Intelligence Assistance	<ul style="list-style-type: none">• Marketing Managers• Research Analysts
Customer Success	<ul style="list-style-type: none">• Customer Support on Demand• Supply Chain Optimization	<ul style="list-style-type: none">• Customer Success Manager• Operations Analyst
IT Development	<ul style="list-style-type: none">• Code Assistance for Developers• Code Summarizations	<ul style="list-style-type: none">• DevOps Developer• QA Analyst
Data Analytics	<ul style="list-style-type: none">• Research based Business Intelligence Report Generation• Data Search & Access Optimization	<ul style="list-style-type: none">• Data Analysis Manager• Data Analyst
Program Management	<ul style="list-style-type: none">• WBS Generation Automation• Real Time Risk Monitoring	<ul style="list-style-type: none">• Project Manager• Scrum Lead

A stylized illustration of a person with a backpack looking at a city skyline. The person is in the foreground, facing right, with a large backpack. The background is a city skyline with various skyscrapers, including one with a distinctive pointed top. The entire scene is rendered in a blue and white color scheme with a textured, painterly style.

**ASK NOT WHAT AI
CAN DO FOR YOU?**

**ASK WHAT YOU CAN
DO WITH AI AND**

ROLES vs. TASKS



WHAT YOU CAN DO

HOW TO GET THE MOST OUT OF AI TOOLS

WITH AI

1. MASTER PROMPT ENGINEERING
2. USE GEN AI FOR MORE COMPLEX TASKS

DEMO OF USE CASES

- BASIC LOW HANGING FRUITS
 - EMAIL GENERATION
 - REPORT SUMMARIZATION
- DOMAIN SPECIFIC USE CASES
 - CLOUD RELIABILITY

PROMPT ENGINEERING

*If you want the right answers,
you have got to ask the right
questions.*

Credits: Hamna Aslam Kahn

ChatGPT Prompt Frameworks

Unlock the full potential of ChatGPT

R-T-F

Prompt Example

Act as a
[ROLE]

Create a
[TASK]

Show as
[FORMAT]

Facebook Ad Marketer.

Design a compelling Facebook ad campaign to promote a new line of fitness apparel for a sports brand.

Create a storyboard outlining the sequence of ad creatives, including ad copy, visuals, and targeting strategy.

→ ROLE

→ TASK

→ FORMAT

T-A-G

Prompt Example

Define
[TASK]

State the
[ACTION]

Clarify the
[GOAL]

The task is to evaluate the performance of team members

Act as a Direct manager and assess the strengths and weaknesses of team members.

Goal is to improve team performance so that the average user satisfaction score moves from 6 to 7.5 in the next quarter.

→ TASK

→ ACTION

→ GOAL

B-A-B

Prompt Example

Explain Problem
[BEFORE]

State Outcome
[AFTER]

Ask fo the
[BRIDGE]

We're nowhere to be seen on SEO rankings

We want to be in top 10 SEO ranking in our niche in 90 days.

Develop a detailed plan for mentioning all the measures we should take also include list of top 20 keywords.

→ BEFORE

→ AFTER

→ BRIDGE

C-A-R-E

Prompt Example

Give the
[CONTEXT]

Describe
[ACTION]

Clarify the
[RESULT]

Give the
[EXAMPLE]

We are launching a new line of sustainable clothing

Can you assist us in creating a targeted advertising campaign that emphasizes our environmental commitment?

Our desired outcome is to drive product awareness and sales

A good example of a similar successful initiative is Patagonia's

"Don't Buy This Jacket" campaign, which highlighted their commitment to sustainability while enhancing their brand image.

→ CONTEXT

→ ACTION

→ RESULT

→ EXAMPLE

R-I-S-E

Prompt Example

Specify the
[ROLE]

Describe
[INPUT]

Ask for
[STEPS]

Describe the
[EXPECTATION]

Imagine you are a content strategist.

I've gathered detailed information about our target audience, including their interests & common questions related to our industry.

Provide a Step by Step content strategy plan identifying key topics based on our audience insights, creating an editorial calendar, and drafting engaging content that aligns with our brand message.

Aim is to increase our blog's monthly visitors by 40% and Enhance our brand's position as a thought leader in our industry.

→ ROLE

→ INPUT

→ STEPS

→ EXPECTATION

AI ENGAGEMENT FRAMEWORK: COREBOTS

- **C : Provide Context:** Background info or data as input
- **O : Define Objective:** Purpose of the output
- **R : Specify Role:** Ex. Expert in Project Management
- **E : Elucidate Details:** Provide clarity avoiding vagueness.

- **B : Put Boundaries:** Limits on the output (word limit)
- **O : Frame Output:** Format (essay, tweet, table, bullet points)
- **T : Set Tone:** Formal, Casual, Authoritative etc.
- **S : Describe Sequencing:** Start with Big Picture and drill down

CORE BOTS : ILLUSTRATION

C : Context

O: Objective

R : Role

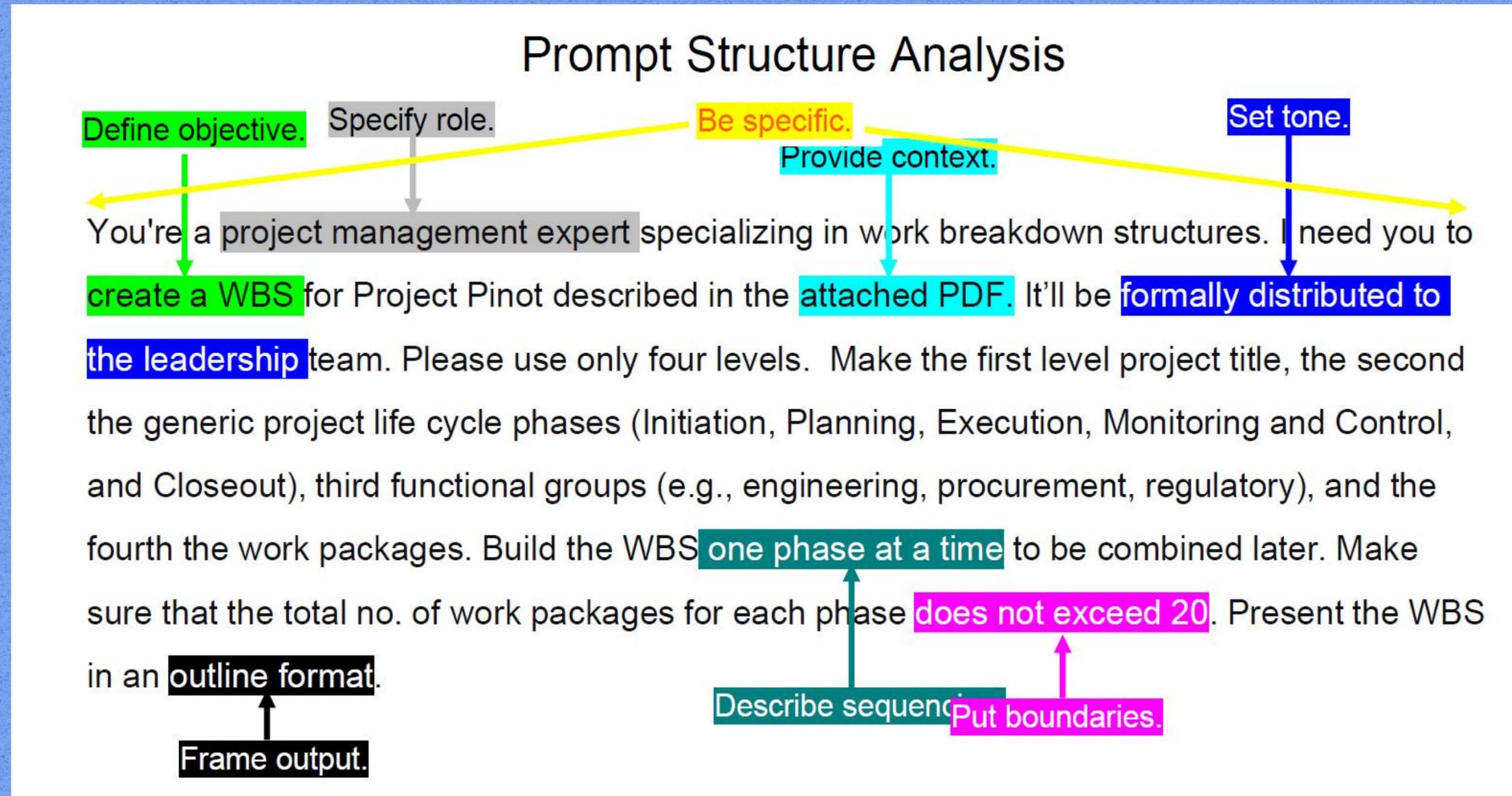
E : Elucidate

B : Boundaries

O: Output

T : Tone

S : Sequencing



WHAT YOU CAN DO

HOW TO GET THE MOST OUT OF AI TOOLS

WITH AI

1. MASTER PROMPT ENGINEERING

2. USE GEN AI FOR MORE COMPLEX TASKS

DEMO OF USE CASES

- BASIC LOW HANGING FRUITS
 - EMAIL GENERATION
 - REPORT SUMMARIZATION
- DOMAIN SPECIFIC USE CASES
 - CLOUD RELIABILITY

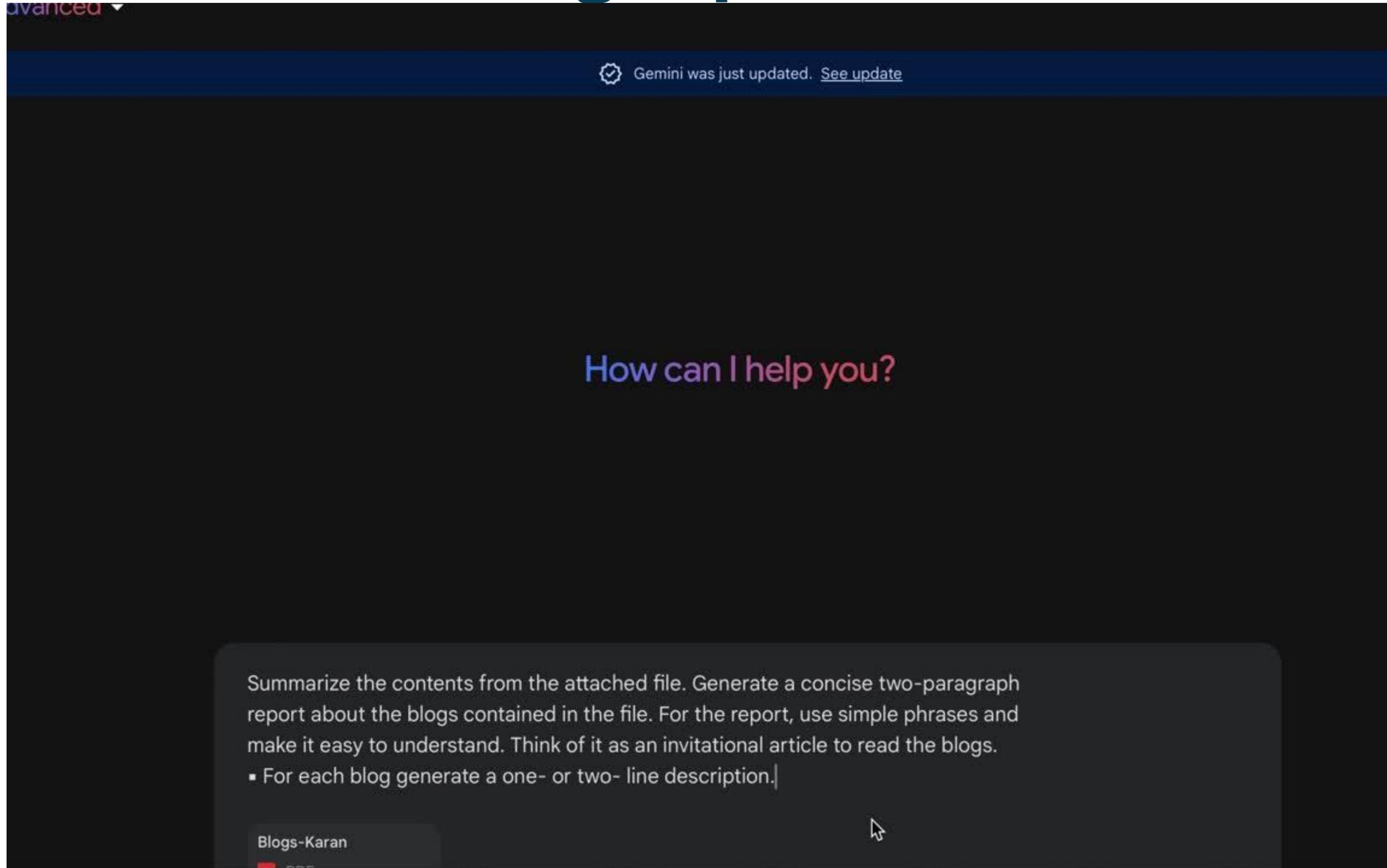
DEMO #1: Harnessing AI in Routine PMO Activities

PROMPT : Summarizing Reports

- Summarize the contents from the attached file. Generate a concise two-paragraph report about the blogs contained in the file. For the report, use simple phrases and make it easy to understand. Think of it as an invitational article to read the blogs.
- For each blog generate a one- or two- line description.
- **Attachment: Karan's Blog Posts**

DEMO #1: Harnessing AI in Routine PMO Activities

Use Case : Summarizing Reports



DEMO #2: Project Portfolio Management

USE CASE: Strategic Alignment in PMO

Case Study: GeneMatrix, Inc.

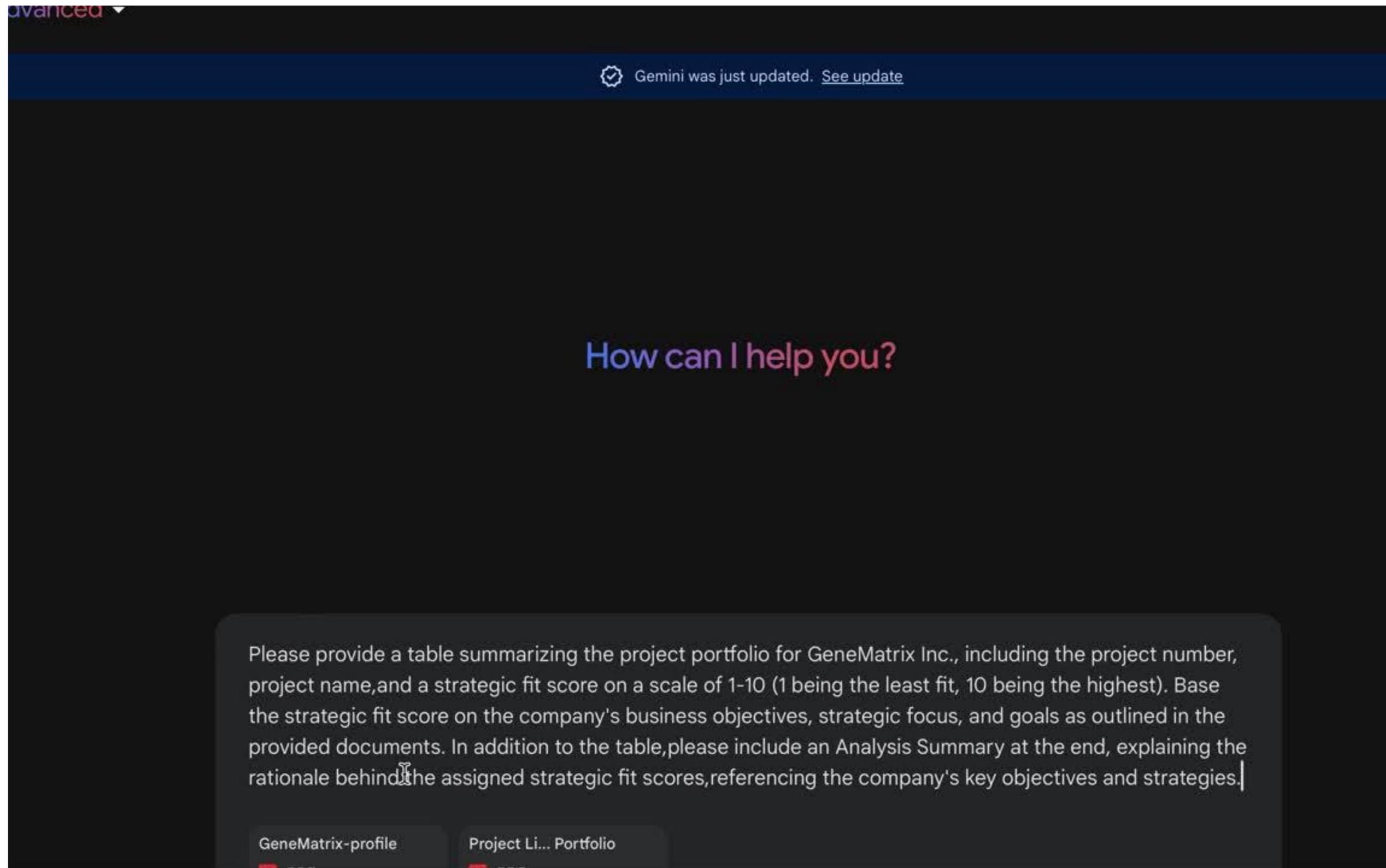
- Biotechnology company in human genomics space that makes:
 - DNA microarrays
 - Reagents
 - Software (called AccuChip)
- PMO portfolio consisting of 27 projects
- Project categories:
 - Financial
 - Customer
 - Business Process

PROMPT: Strategic Alignment in PMO

- Please provide a table summarizing the project portfolio for GeneMatrix Inc., including the project number, project name, and a strategic fit score on a scale of 1-10 (1 being the least fit, 10 being the highest).
- Base the strategic fit score on the company's business objectives, strategic focus, and goals as outlined in the provided documents.
- In addition to the table, please include an Analysis Summary at the end, explaining the rationale behind the assigned strategic fit scores, referencing the company's key objectives and strategies.
- Attachments:

DEMO #2: Project Portfolio Management

USE CASE: Strategic Alignment in PMO



Advanced ▾

🔔 Gemini was just updated. [See update](#)

How can I help you?

Please provide a table summarizing the project portfolio for GeneMatrix Inc., including the project number, project name, and a strategic fit score on a scale of 1-10 (1 being the least fit, 10 being the highest). Base the strategic fit score on the company's business objectives, strategic focus, and goals as outlined in the provided documents. In addition to the table, please include an Analysis Summary at the end, explaining the rationale behind the assigned strategic fit scores, referencing the company's key objectives and strategies.

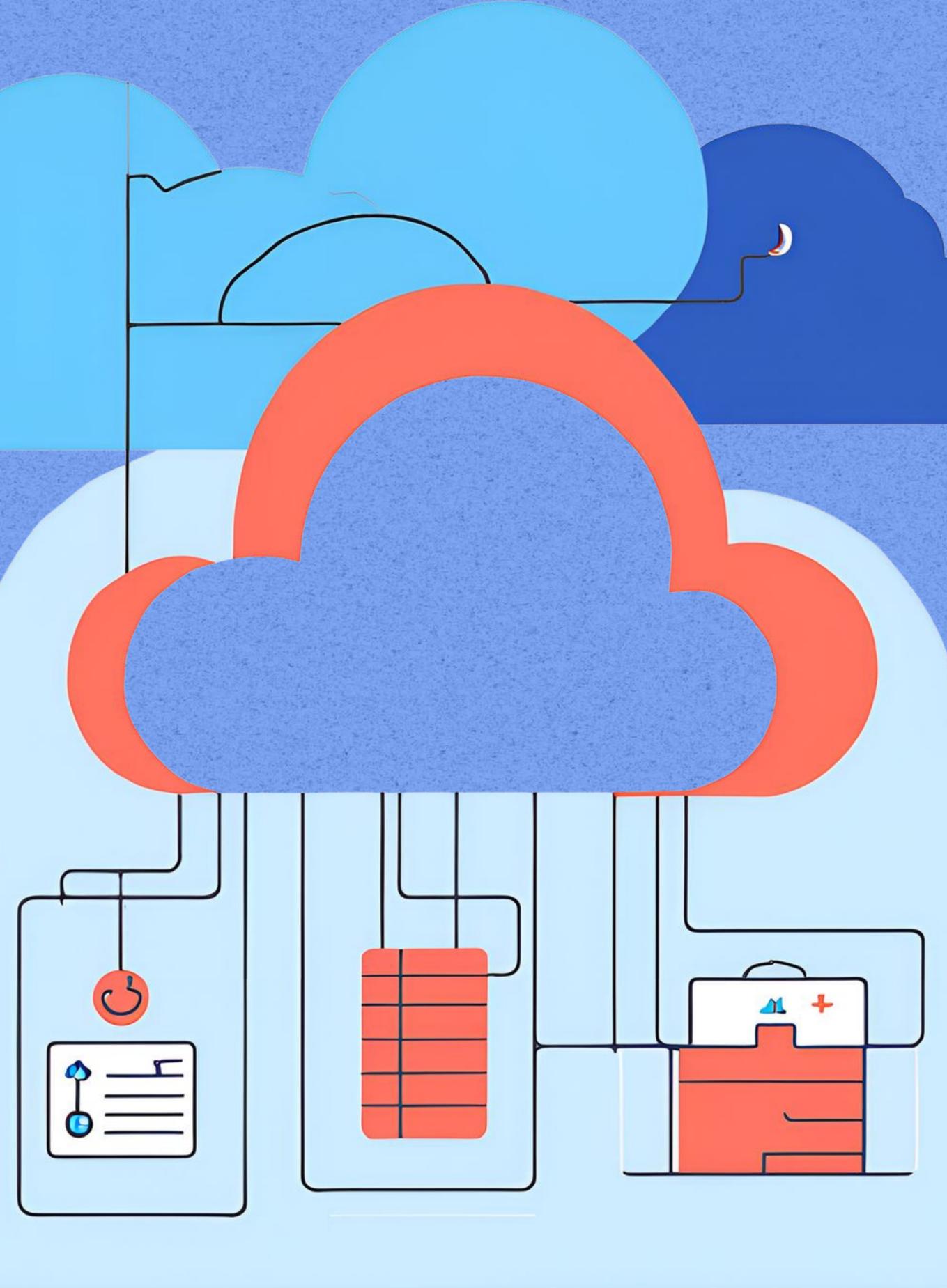
GeneMatrix-profile PDF

Project Li... Portfolio PDF

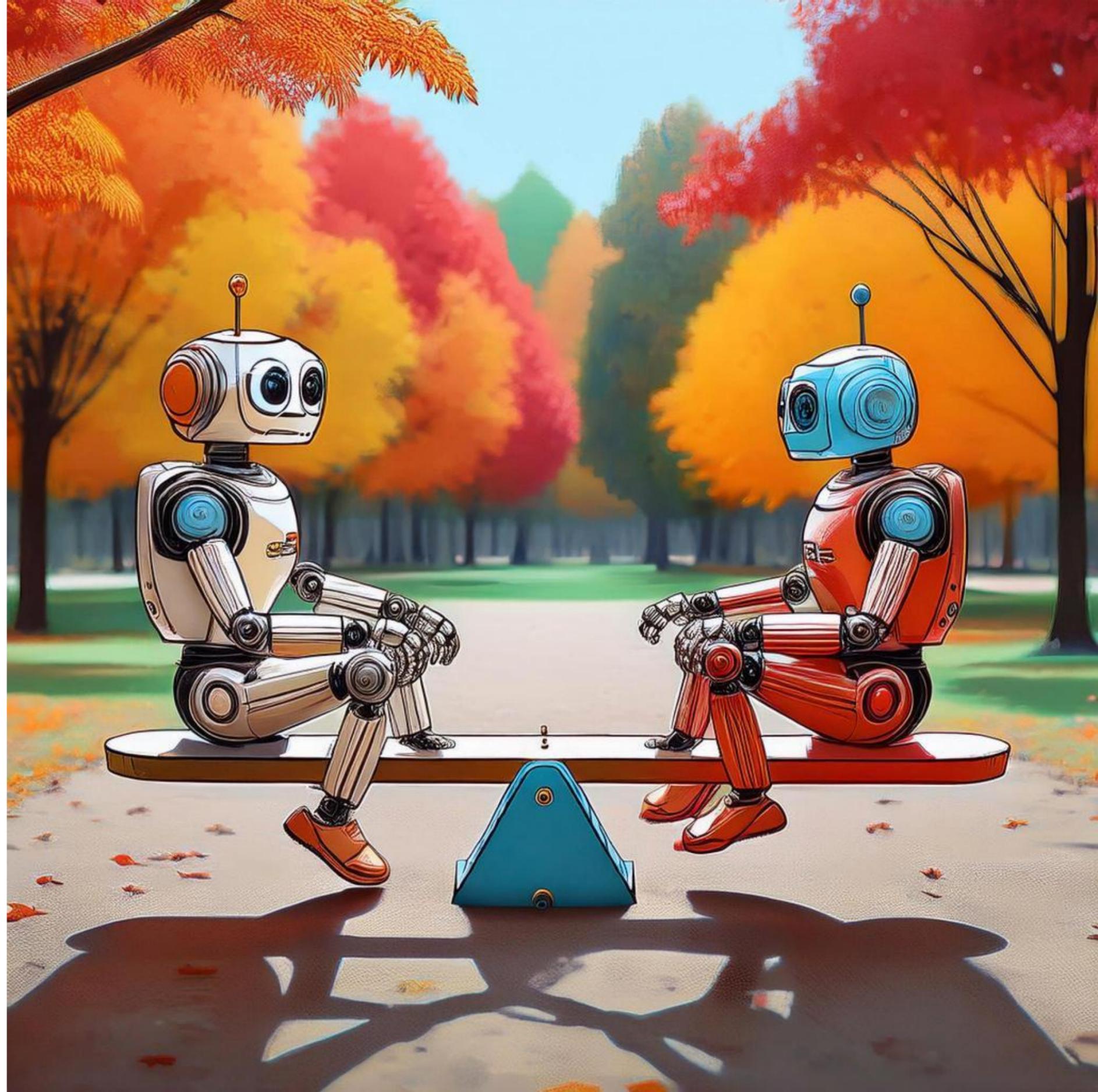
USE CASE 3: AI in Cloud Reliability

Technical Program Management

- Cloud Reliability - What is it?
 - How well a cloud system performs and delivers services to users, without interruptions or failures
 - Drive operational excellence and continuous improvement to minimize downtime and maximize performance.



Reliability for AI
OR
AI for Reliability



AI for Reliability

Use Cases



GenAI as an everyday tool

Keeping documentation clean and up to date, producing initial postmortems, question answering, debugging



Workflow automation

AI as applied to toil reduction, use agents authorized on your infrastructure to fix stuff



Detection and remediation

Prior to problems getting out of hand, detect issues and (in some cases) fix automatically using agents



Resource efficiency

Assist with proactive resource allocation, bin-packing, and related optimizations

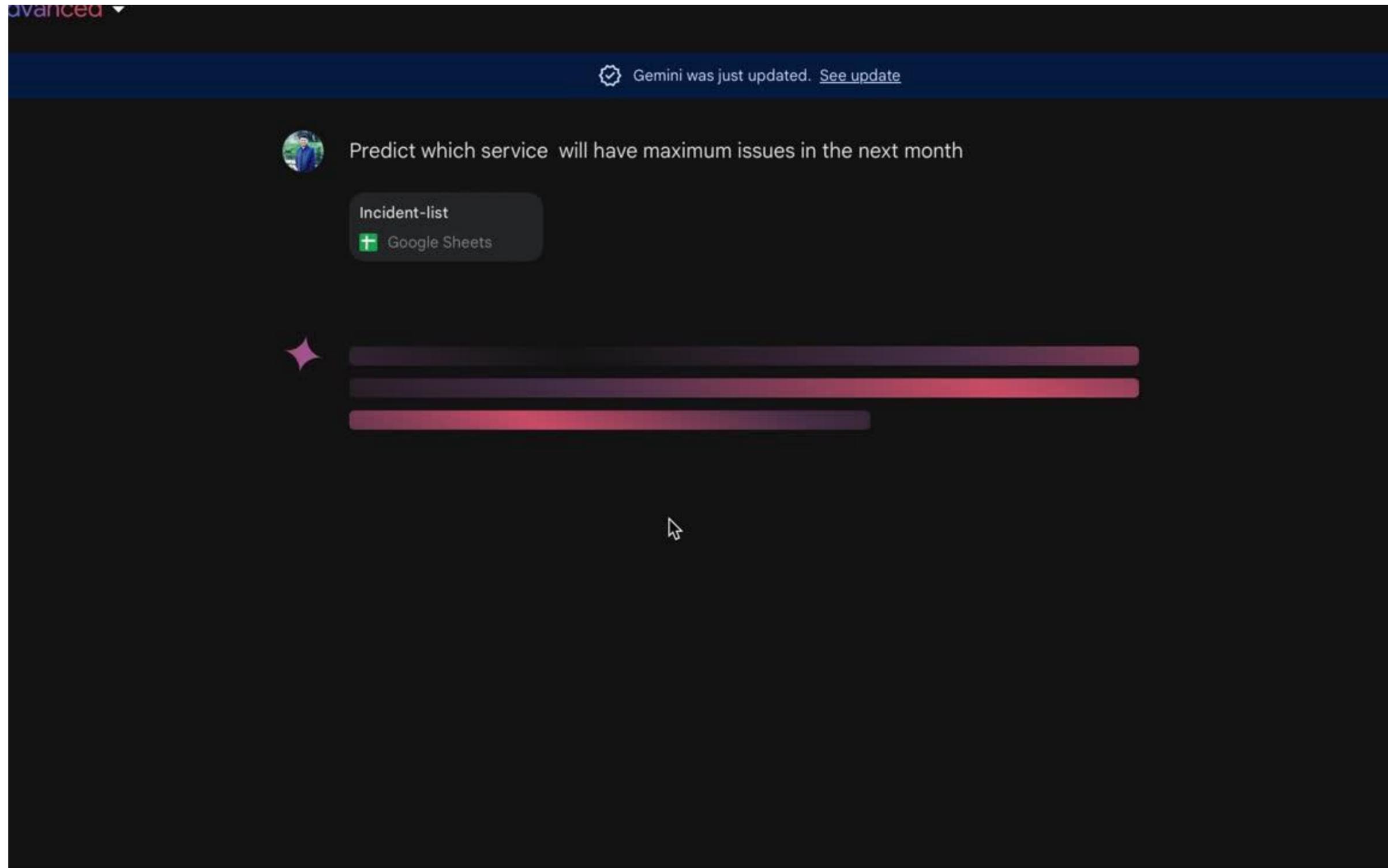
	A	B	C
1	Date	Incident Name	Fix time (hours)
2	9/26/2024 7:30:00	Service A is impacted due to high latency	56.00
3	9/4/2024 0:20:00	Service B is impacted due to high latency	64.00
4	8/22/2024 5:00:00	Service C is impacted due to high latency	80.00
5	8/8/2024 2:00:00	Service D has high error rates	24.00
6	8/13/2024 0:03:00	Service A is impacted due to high latency	56.00
7	7/19/2024 0:40:00	Service F has high error rates	72.00
8	7/23/2024 0:00:00	Service G is down from more than 1 minute	80.00
9	7/3/2024 6:00:00	Service H has high error rates	72.00
10	6/10/2024 11:00:00	Service A is impacted due to high latency	32.00
11	6/20/2024 7:20:00	Service S is impacted	48.00
12	6/3/2024 1:10:00	Service T is impacted	80.00
13	9/26/2024 7:30:00	Service A is impacted due to high latency	56.00
14	9/4/2024 0:20:00	Service B is impacted due to high latency	64.00
15	8/22/2024 5:00:00	Service C is impacted due to high latency	80.00
16	8/8/2024 2:00:00	Service D has high error rates	24.00
17	8/13/2024 0:03:00	Service A is impacted due to high latency	56.00
18	7/19/2024 0:40:00	Service F has high error rates	72.00
19	7/23/2024 0:00:00	Service G is down from more than 1 minute	80.00
20	7/3/2024 6:00:00	Service H has high error rates	72.00
21	6/10/2024 11:00:00	Service A is impacted due to high latency	32.00
22	6/20/2024 7:20:00	Service S is impacted	48.00
23	6/3/2024 1:10:00	Service T is impacted	80.00
24	9/26/2024 7:30:00	Service A is impacted due to high latency	56.00
25	9/4/2024 0:20:00	Service B is impacted due to high latency	64.00
26	8/22/2024 5:00:00	Service C is impacted due to high latency	80.00
27	8/8/2024 2:00:00	Service D has high error rates	24.00

Prompt:

Using AI for Troubleshooting

- Predict which service will have more issues in the next month
- Predict how many hours of fix time will be required for the next month

Prompt: Using AI for Troubleshooting



Prompt: Using AI to determine the # of Oncall hours(Staffing) you will need ?

The screenshot shows a dark-themed chat interface for Gemini AI. At the top, a blue notification bar reads "Gemini was just updated. [See update](#)". Below this, a user profile icon is followed by the prompt: "Predict how many hours of fix time will be required for the next month". Underneath the prompt, there are two context cards: "Incident-list" and "Google Sheets". A large, multi-colored loading bar is positioned below the context cards, indicating that the AI is processing the request. A mouse cursor is visible at the bottom center of the screen.

USE CASES: AI in Data Analytics

Program Management

Self Service Analysis



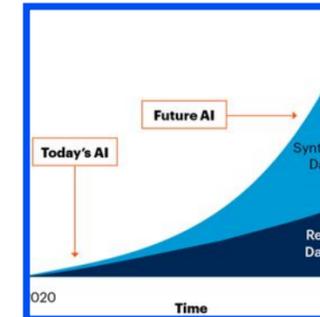
Using NLP in AI
Non-data users
can now Analyze
Large Data Sets and
Explain Key Insights

Dashboards Creation



Create Dashboards,
Narrate Data Stories
and Distill Key Insights
from the Dashboards
Ex. Tableau Pulse.

Synthetic Data Generation



Generate Artificial Data
from Simple Rules,
Modeling & Simulation
to feed AI Models
Ex. Mostly AI

Data Quality Validation



Detect and Rectify
Formatting Errors or
Identify Outliers that
could skew results.
Ex. Claude

Use Case 4: AI Driven Data Quality Validation for Recurring Revenue Metrics

Background— A technology company is implementing a data analytics project to define and calculate growth metrics for recurring revenue.

Scope: The project data involves analyzing

- **Order Bookings & Entitlement data** to determine **new business vs. renewal business**,
- **Key metrics** including \$New, **\$Available to Renew, \$Renewed, \$Attrition**, and \$Expansion.
- **Key Dimensions** including **Customer, Products (SWs & HWs), Geographies (3 levels)**,

Problem Statement:

Implement an **AI-powered data quality assessment system** to monitor and **validate the integrity, consistency, and accuracy** of the recurring revenue data across all dimensions. The system should **identify data quality issues** that could impact the accuracy of growth metrics, ensure **proper classification** of revenue types, and **maintain the consistency** of hierarchical data such as

Use Case 4: AI Driven Data Quality Validation

PROMPT:

As an AI-driven data quality auditor, continuously analyze our recurring revenue dataset. Focus on:

1. **Identifying inconsistencies** in revenue classification (new vs. renewal)
2. **Detecting anomalies** in metric calculations (\$New, \$Available to Renew, \$Renewed, \$Attrition, \$Expansion)
3. **Validating the integrity** of geographical hierarchies
4. **Ensuring consistency** between booking information and entitlement data
5. **Flagging potential data entry errors or outliers**

Expected Outcome:

An automated report in **tabular format** highlighting **data quality issues, their severity, potential impact on growth metrics, and recommended actions**. The system should also **provide trend analysis of data quality over time** and **predictive insights** on potential future data issues based on observed patterns.

Use Case 4: AI Driven Data Quality Validation

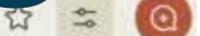
INPUT FILE: Growth Metrics Sample Data.xls

CustomerID	CustomerName	ProductID	ProductName	ProductType	GeographyL	GeographyL	GeographyL	BookingDate	BookingAmount	EntitlementStartDate	EntitlementEndDate	PreviousContractVal	NewFlag	RenewalFlag	\$New	\$AvailableToRenew	\$Renewal	\$Attrition	\$Expansion
C001	Acme Corp	P101	Cloud Service Pr	SW Subscriptio	AMER	USA	West	1/15/2024	50000	2/1/2024	1/31/2025	0	1	0	50000	0	0	0	0
C002	Beta Inc	P102	Network Security	SW Subscriptio	EMEAR	UK	London	1/16/2024	75000	2/1/2024	1/31/2025	70000	0	1	0	70000	70000	0	5000
C003	Gamma LLC	P103	Data Analytics P	SW Subscriptio	APJC	Japan	Tokyo	1/17/2024	100000	2/1/2024	1/31/2025	110000	0	1	0	110000	100000	10000	0
C004	Delta Co	P104	IoT Management	SW Subscriptio	AMER	Canada	East	1/18/2024	60000	2/1/2024	1/31/2025	55000	0	1	0	55000	55000	0	5000
C005	Epsilon AG	P105	AI Development	SW Subscriptio	EMEAR	Germany	Munich	1/19/2024	80000	2/1/2024	1/31/2025	0	1	0	80000	0	0	0	0
C006	Zeta Ltd	P106	Cloud Storage Pl	SW Subscriptio	APJC	Australia	Sydney	1/20/2024	-5000	2/1/2024	1/31/2025	90000	0	1	0	90000	85000	5000	0
C007	Eta Corp	P107	Cybersecurity Su	SW Subscriptio	AMER	USA	East	1/21/2024	120000	2/1/2024	1/31/2025	100000	0	1	0	100000	100000	0	20000
C008	Theta Inc	P108	Enterprise Resol	SW Subscriptio	EMEAR	France	Paris	1/22/2024	95000	2/1/2024	1/31/2025	90000	0	1	0	90000	90000	0	5000
C009	Iota Co	P109	Customer Relati	SW Subscriptio	APJC	India	Mumbai	1/23/2024	70000	2/1/2024	1/31/2025	75000	0	1	0	75000	70000	5000	0
C010	Kappa LLC	P110	Cloud Computin	SW Subscriptio	AMER	Mexico	Central	1/24/2024	110000	2/1/2024	1/31/2025	100000	0	1	0	100000	100000	0	10000
C011	Lambda AG	P111	Data Visualizati	SW Subscriptio	EMEAR	Spain	Madrid	1/25/2024	40000	2/1/2024	1/31/2025	50000	0	1	0	50000	40000	10000	0
C012	Mu Ltd	P112	Network Monitor	SW Subscriptio	APJC	Singapore	Central	1/26/2024	85000	2/1/2024	1/31/2025	80000	0	1	0	80000	80000	0	5000
C013	Nu Corp	P113	Cloud Database	SW Subscriptio	AMER	Brazil	South	1/27/2024	65000	2/1/2024	1/31/2025	0	1	0	65000	0	0	0	0
C014	Xi Inc	P114	AI-Powered Anat	SW Subscriptio	EMEAR	Italy	Rome	1/28/2024	105000	2/1/2024	1/31/2025	100000	0	1	0	100000	100000	0	5000
C015	Omicron Co	P115	Enterprise Colla	SW Subscriptio	APJC	South Korea	Seoul	1/29/2024	75000	2/1/2024	1/31/2025	80000	0	1	0	80000	75000	5000	0
C016	Pi LLC	P116	Cloud Security S	SW Subscriptio	AMER	USA	Central	1/30/2024	90000	2/1/2024	1/31/2025	85000	0	1	0	85000	85000	0	5000
C017	Rho AG	P117	Big Data Proces	SW Subscriptio	EMEAR	Netherlands	Amsterdam	1/31/2024	130000	2/1/2024	1/31/2025	120000	0	1	0	120000	120000	0	10000
C018	Sigma Ltd	P118	Machine Learnin	SW Subscriptio	APJC	China	Beijing	2/1/2024	70000	2/15/2024	2/14/2025	75000	0	1	0	75000	70000	5000	0
C019	Tau Corp	P119	Cloud Content D	SW Subscriptio	AMER	Canada	West	2/2/2024	55000	2/15/2024	2/14/2025	50000	0	1	0	50000	50000	0	5000
C020	Upsilon Inc	P120	Enterprise API M	SW Subscriptio	EMEAR	Sweden	Stockholm	2/3/2024	85000	2/15/2024	2/14/2025	0	1	0	85000	0	0	0	0
C021	Phi Systems	P101	Cloud Service Pr	SW Subscriptio	APJC	Australia	Melbourne	2/4/2024	62000	2/15/2024	2/14/2025	60000	0	1	0	60000	60000	0	2000
C022	Chi Solutions	P102	Network Security	SW Subscriptio	AMER	USA	South	2/5/2024	88000	2/15/2024	2/14/2025	85000	0	1	0	85000	85000	0	3000
C023	Psi Technologies	P103	Data Analytics P	SW Subscriptio	EMEAR	Germany	Berlin	2/6/2024	115000	2/15/2024	2/14/2025	110000	0	1	0	110000	110000	0	5000
C024	Omega Corp	P104	IoT Management	SW Subscriptio	APJC	Japan	Osaka	2/7/2024	72000	2/15/2024	2/14/2025	70000	0	1	0	70000	70000	0	2000
C025	Alpha Solutions	P105	AI Development	SW Subscriptio	AMER	Canada	Central	2/8/2024	95000	2/15/2024	2/14/2025	0	1	0	95000	0	0	0	0
C026	Beta Systems	P106	Cloud Storage Pl	SW Subscriptio	EMEAR	UK	Manchester	2/9/2024	82000	2/15/2024	2/14/2025	80000	0	1	0	80000	80000	0	2000
C027	Gamma Technolo	P107	Cybersecurity Su	SW Subscriptio	APJC	Singapore	North	2/10/2024	135000	2/15/2024	2/14/2025	130000	0	1	0	130000	130000	0	5000
C028	Delta Solutions	P108	Enterprise Resol	SW Subscriptio	AMER	Mexico	North	2/11/2024	102000	2/15/2024	2/14/2025	100000	0	1	0	100000	100000	0	2000
C029	Epsilon Systems	P109	Customer Relati	SW Subscriptio	EMEAR	France	Lyon	2/12/2024	78000	2/15/2024	2/14/2025	75000	0	1	0	75000	75000	0	3000
C030	Zeta Corp	P110	Cloud Computin	SW Subscriptio	APJC	India	Bangalore	2/13/2024	118000	2/15/2024	2/14/2025	115000	0	1	0	115000	115000	0	3000
C031	Eta Technologies	P111	Data Visualizati	SW Subscriptio	AMER	USA	Northwest	2/14/2024	52000	3/1/2024	2/28/2025	50000	0	1	0	50000	50000	0	2000
C032	Theta Solutions	P112	Network Monitor	SW Subscriptio	EMEAR	Italy	Milan	2/15/2024	92000	3/1/2024	2/28/2025	90000	0	1	0	90000	90000	0	2000
C033	Iota Systems	P113	Cloud Database	SW Subscriptio	APJC	South Korea	Busan	2/16/2024	72000	3/1/2024	2/28/2025	70000	0	1	0	70000	70000	0	2000
C034	Kappa Technolog	P114	AI-Powered Anat	SW Subscriptio	AMER	Brazil	North	2/17/2024	112000	3/1/2024	2/28/2025	110000	0	1	0	110000	110000	0	2000
C035	Lambda Corp	P115	Enterprise Colla	SW Subscriptio	EMEAR	Spain	Barcelona	2/18/2024	82000	3/1/2024	2/28/2025	80000	0	1	0	80000	80000	0	2000
C036	Mu Systems	P116	Cloud Security S	SW Subscriptio	APJC	Australia	Brisbane	2/19/2024	98000	3/1/2024	2/28/2025	95000	0	1	0	95000	95000	0	3000
C037	Nu Technologies	P117	Big Data Proces	SW Subscriptio	AMER	USA	Southwest	2/20/2024	142000	3/1/2024	2/28/2025	140000	0	1	0	140000	140000	0	2000
C038	Xi Solutions	P118	Machine Learnin	SW Subscriptio	EMEAR	Netherlands	Rotterdam	2/21/2024	77000	3/1/2024	2/28/2025	75000	0	1	0	75000	75000	0	2000
C039	Omicron Systems	P119	Cloud Content D	SW Subscriptio	APJC	Japan	Nagoya	2/22/2024	62000	3/1/2024	2/28/2025	60000	0	1	0	60000	60000	0	2000
C040	Pi Technologies	P120	Enterprise API M	SW Subscriptio	AMER	Canada	West	2/23/2024	92000	3/1/2024	2/28/2025	90000	0	1	0	90000	90000	0	2000
C041	Rho Solutions	P101	Cloud Service Pr	SW Subscriptio	EMEAR	Germany	Hamburg	2/24/2024	67000	3/1/2024	2/28/2025	65000	0	1	0	65000	65000	0	2000
C042	Sigma Corp	P102	Network Security	SW Subscriptio	APJC	India	Chennai	2/25/2024	79000	3/1/2024	2/28/2025	75000	0	1	0	75000	75000	0	4000

Use Case 4: Automated Data Quality Assessment for Recurring Revenue Metrics

Claude

AI in Project Management / Leveraging AI for Next-Gen PMO Data Analytics



This report provides a comprehensive analysis of the data quality issues in the Growth Metrics dataset, addressing each of the focus areas specified in the prompt. It identifies specific issues, assesses their impact on growth metrics, and provides actionable recommendations for data stewards.

The report also includes trend analysis and predictive insights, offering a forward-looking perspective on data quality and its potential impact on the business. This aligns with the concept of a Next-Gen PMO, where AI-driven insights can inform strategic decision-making and proactive data management.

Key points to highlight in your presentation:

1. The power of AI in quickly identifying complex data quality issues across multiple dimensions in a large dataset.
2. The ability to provide context and impact analysis, not just raw data on issues.
3. The extraction of meaningful trends and patterns from the data, which can inform

Act as an **AI-driven data quality auditor** to analyze our recurring revenue dataset. **Focus on:**

1. **Identifying inconsistencies** in revenue classification (new vs. renewal)
2. **Detecting anomalies** in metric calculations (\$New, \$Available to Renew, \$Renewed, \$Attrition, \$Expansion)
3. **Validating the integrity** of geographical hierarchies
4. **Ensuring consistency** between booking information and entitlement data
5. **Flagging potential data entry errors** or outliers

Expected Outcome: A report in tabular format highlighting data quality issues, their severity, potential impact on growth metrics, and recommended actions.

Also provide trend analysis of data quality over time and predictive insights on potential future data issues based on observed patterns.

Input File: Growth Metrics Sample Data

Claude 3.5 Sonnet

Use shift + return for new line

Chat controls

Claude 3.5 Sonnet
Most intelligent model [Learn more](#)

Artifacts

Use Cases for AI-Driven Data Analytics Project Management
Click to open document • 1 version

Use Cases for Automated Data Quality Assessment in Data Analytics Projects
Click to open document • 1 version

Automated Data Quality Assessment for Recurring Revenue Metrics
Click to open document • 1 version

Sample Input File for Recurring Revenue Data Quality Assessment
Click to open code • 1 version

Data Quality Audit Report for Recurring Revenue Dataset
Click to open document • 1 version

Expanded Sample Input File for Recurring Revenue Data Quality Assessment (100...
Click to open code • 1 version

Data Quality Audit Report for Growth Metrics Dataset
Click to open document • 1 version

Project content

AI in Project Management

MD





NEXT GEN

PMOs

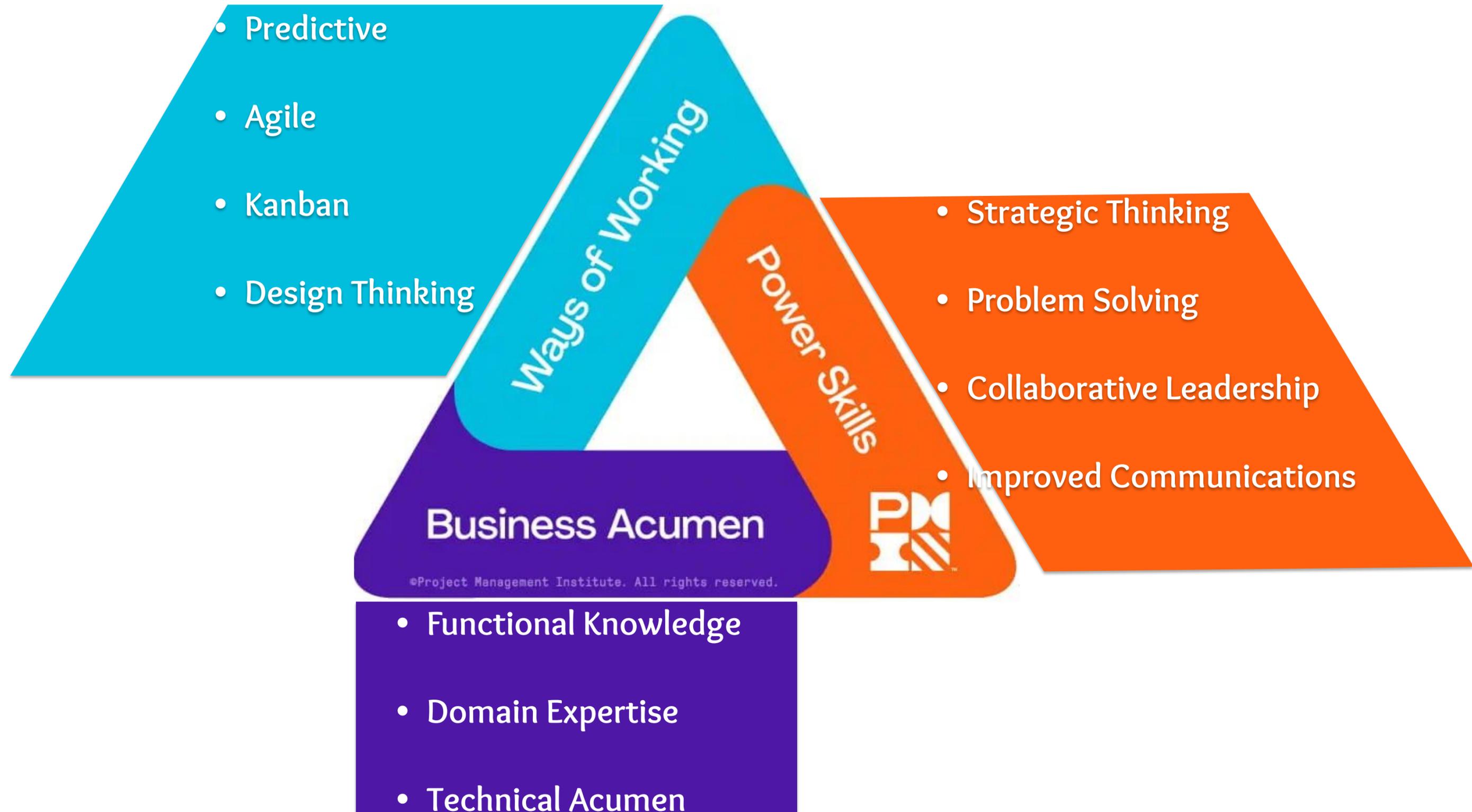
entails

Project Managers

to embrace a

Growth

Project Management Triangle



Business Acumen

	Domain Skills	Functional Skills	Technical Skills
What	Are you a Industry Expert with knowledge of industry trends, competitive landscape and regulations that you use to solve problems and make informed decisions	Are you a Functional Expert , with the ability to use tools and execute techniques, processes, and tasks to get things done	Are you a Tech Enthusiast with enough understanding to collaborate effectively with technical teams and make informed project decisions.
How to Build	<ul style="list-style-type: none"> • Be aware of Industry Specific Niche's <ul style="list-style-type: none"> ○ Pharma & Healthcare Specs. ○ Financial Company Restrictions ○ Hardware Company Supply Chain ○ Subscription Industry Metrics etc. • Speak your company language • Engage Executive to seek out company's strategic vision. 	<ul style="list-style-type: none"> • Be aware of how Departments works <ul style="list-style-type: none"> ○ Marketing, Sales & CX ○ Finance & Accounting ○ IT & Data Analytics ○ Product & Program • Learn frameworks & tools for <ul style="list-style-type: none"> ○ Scenario Analysis ○ Competitive Intelligence Analysis ○ Design Thinking 	<ul style="list-style-type: none"> • Have Basic Understanding of <ul style="list-style-type: none"> ○ Project Management SWs ○ Data Analysis - SQL / Python ○ BI Reporting - Tableau / Power BI ○ Presentation - Canva, PPT • Depending on Domain, be aware of <ul style="list-style-type: none"> ○ Security & Compliance ○ Dev Ops & Cloud Computing ○ Process Analysis - Celonis ○ Sales - Anaplan. Salesforce
AI	Leverage Open AI's - ChatGPT, Google's - BARD, MS's - Copilot, Anthropic's - Claude, Meta's - LLAMA for developing business acumen		

AI Tools for PMs

Generative AI Tools	<ul style="list-style-type: none">• Open AI - ChatGPT• Google Bard• MS Co Pilot	<ul style="list-style-type: none">• Claude• Lamda• PMI Infinity
Project Management Specific	<ul style="list-style-type: none">• ClickUp AI• Monday.com• Asana	<ul style="list-style-type: none">• Smartsheet• TeamGantt• Clockwise
Communications & Collaboration	<ul style="list-style-type: none">• Slack GPT• MS Teams Premium• Zoom AI companion	<ul style="list-style-type: none">• Miro• WebEx• Team Up
Content Creation	<ul style="list-style-type: none">• Canva• Copy.ai• Grammarly	<ul style="list-style-type: none">• Narrato• MarketMuse• Synthesia
Resume Building & Interview Prep	<ul style="list-style-type: none">• Kick Resume• Teal• Rezi	<ul style="list-style-type: none">• Yoodli• Top Resume• LinkedIn Learning



The AI Project

Manager
'Don't worry, team,

*I've optimized
everything for*

*maximum
efficiency...*

THANK YOU!



Karanveer Anand

Technical Program Management @ Google | Fellow
APM | Senior IEEE



Mahesh Deshpande

Digital Program Management Leader @
Genpact | VP Mentorship Strategy @PMI ...

