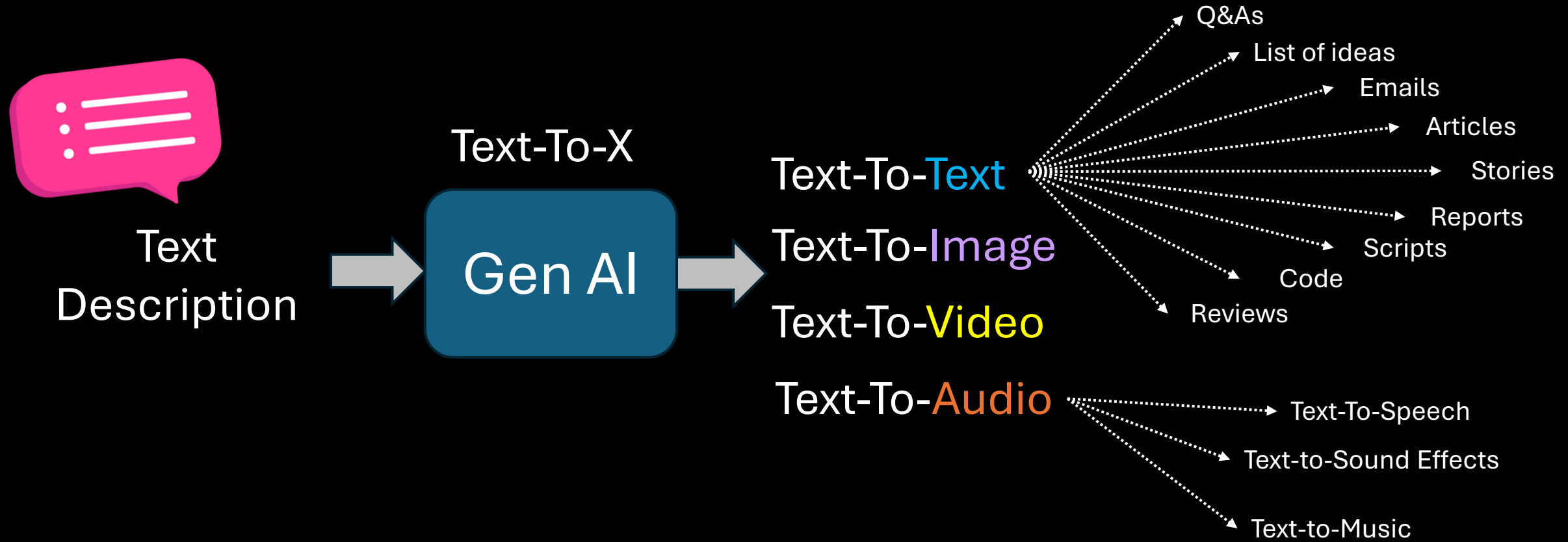


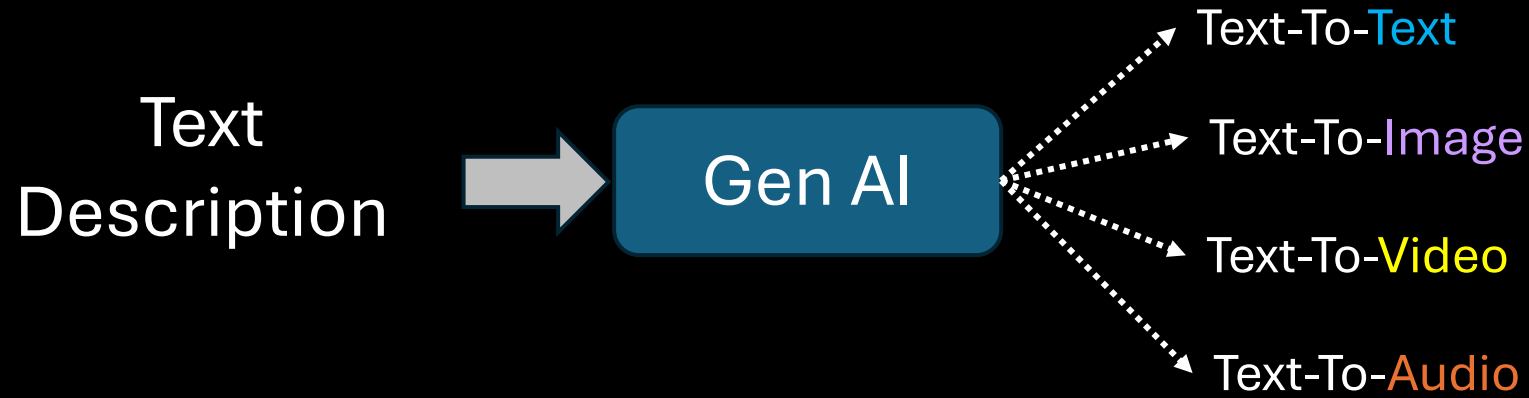


Unleash the Power of Generative AI

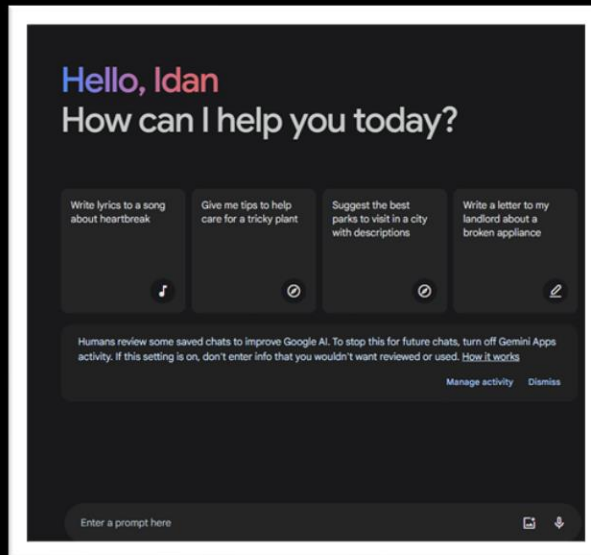
Generative AI for Absolute Beginners

By Idan Gabrieli

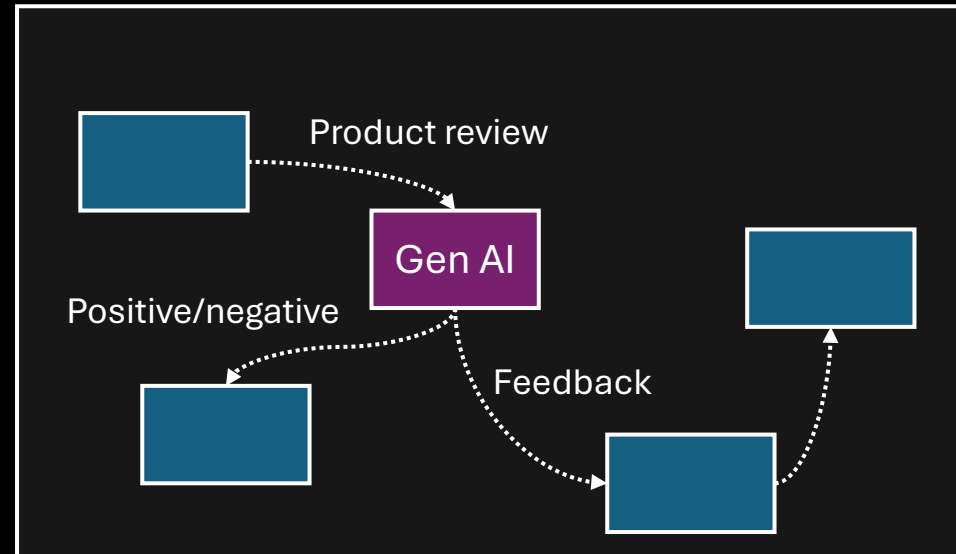




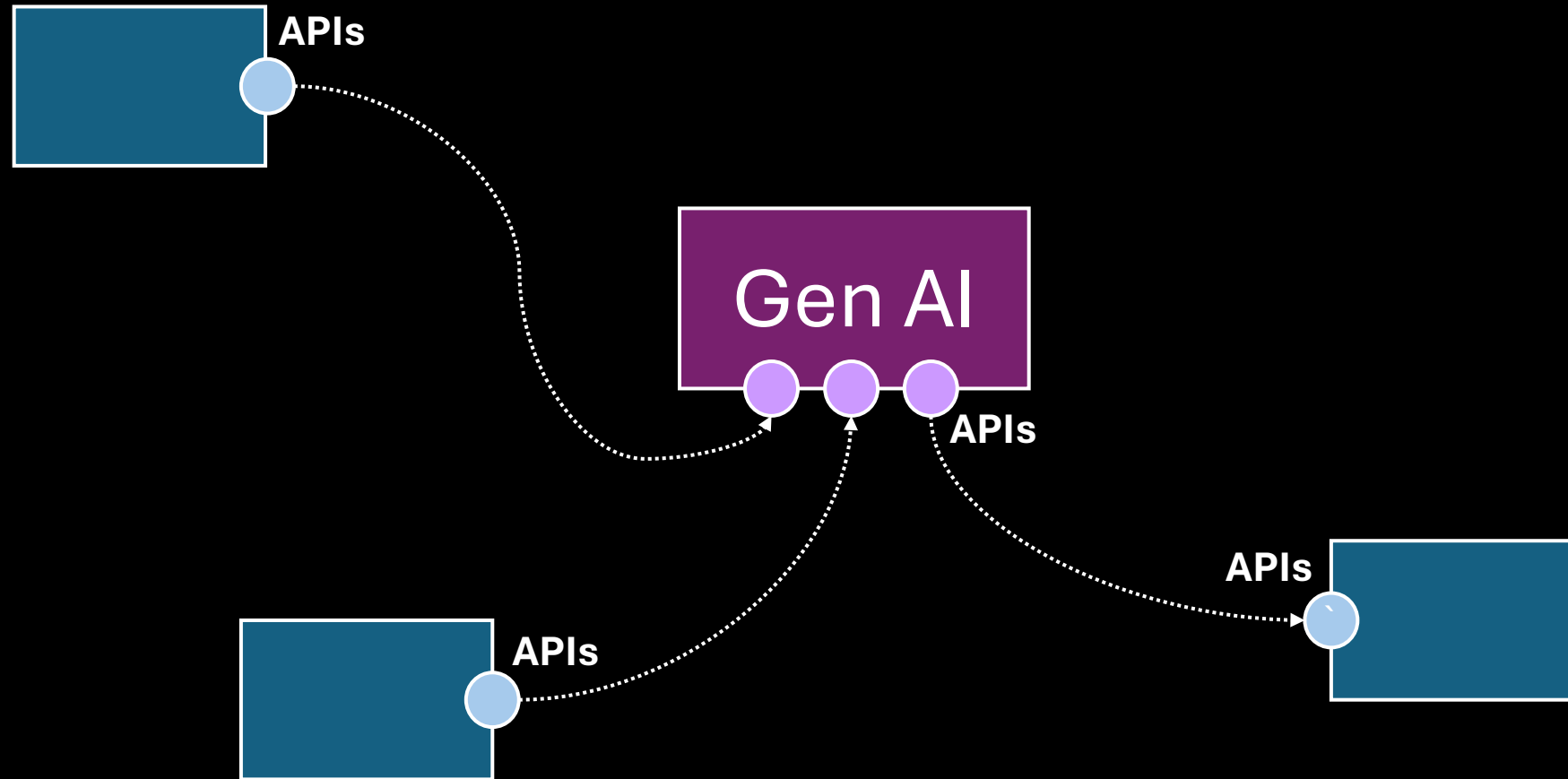
#1 - Web-Based



#2 - Application-Based



APIs - Application Programming Interface



Use Case – Brainstorm Assistant

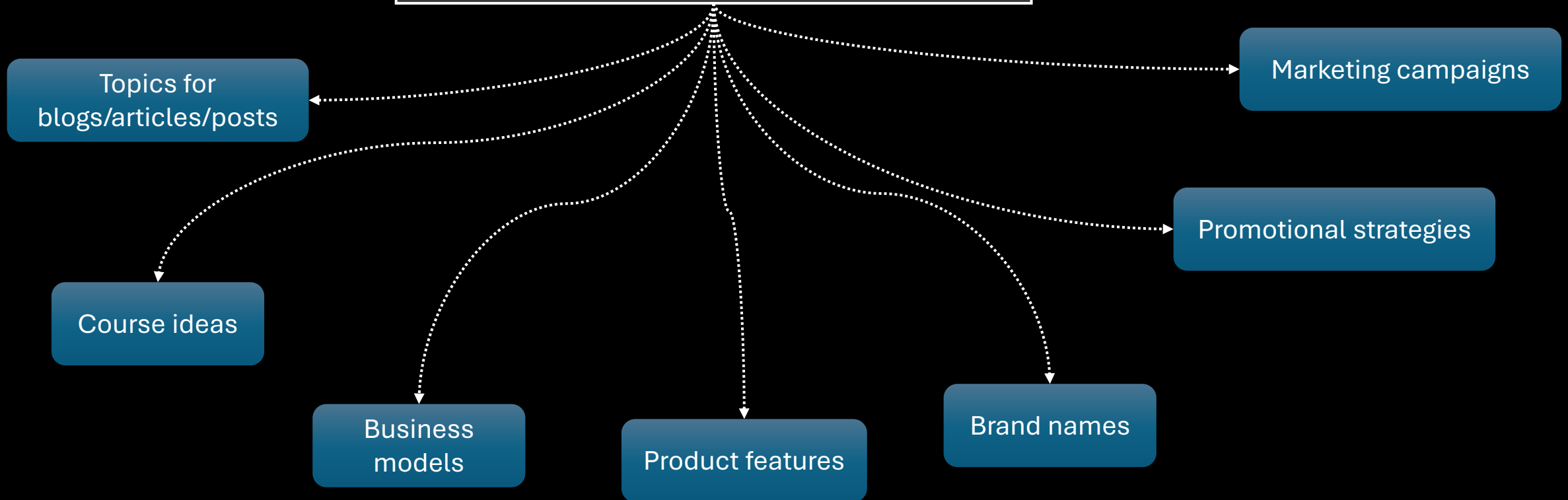
Ideas

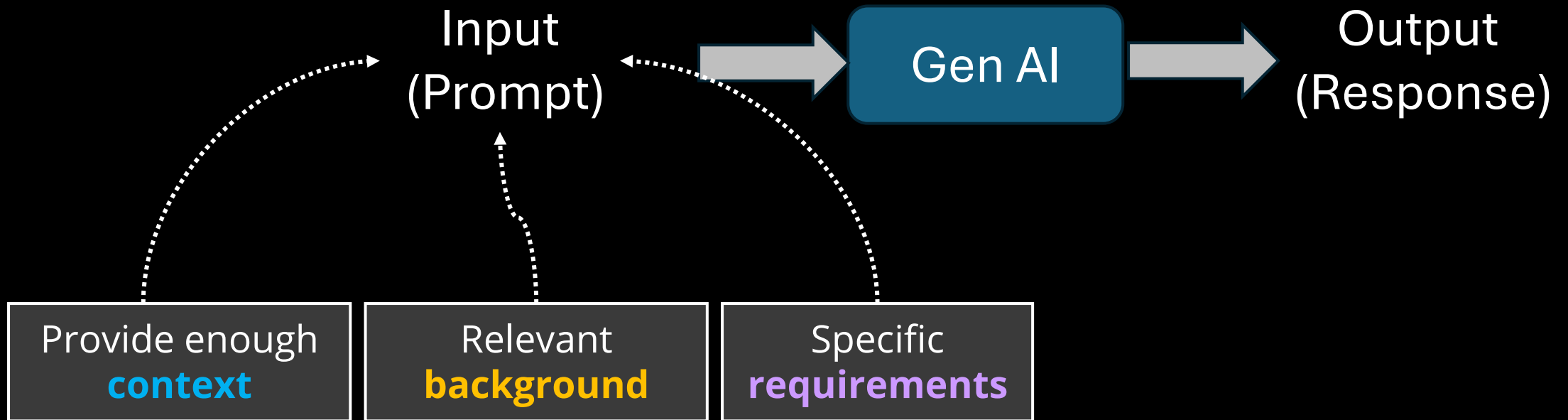
Directions

Perspectives



Use Case –
Brainstorm Assistant



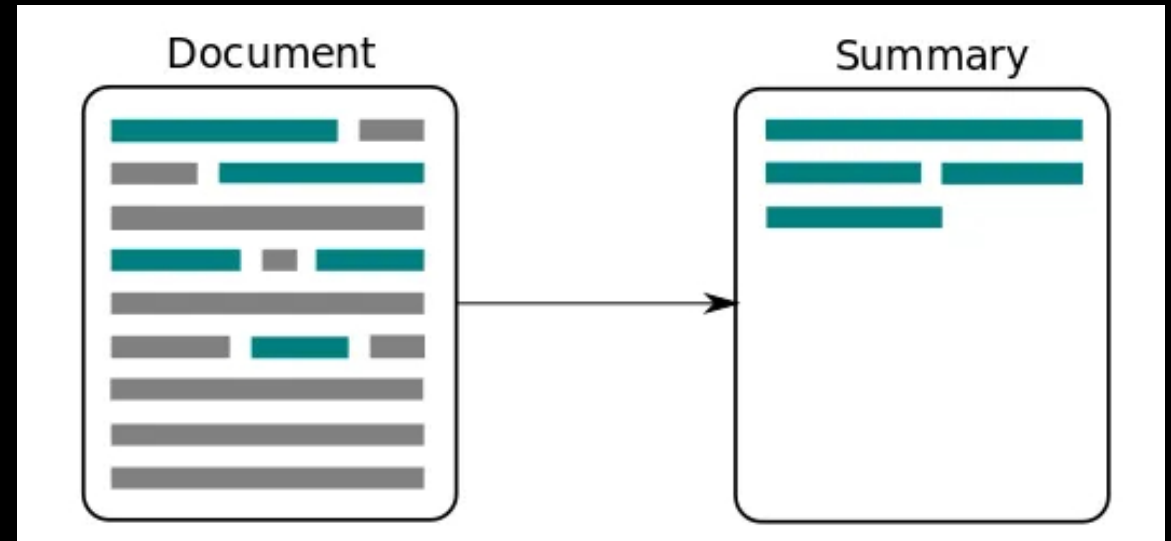


Use Case – Summarization

Understand
Context

Identify
Key Points

Structured
Summary



Summarize that text in **a specific way**



100 pages

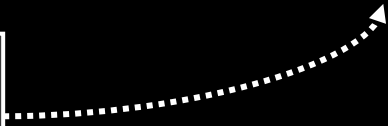


Gen AI



Incomplete or inaccurate summaries

Max # of
Tokens



Chapter #1



Gen AI

Chapter #2



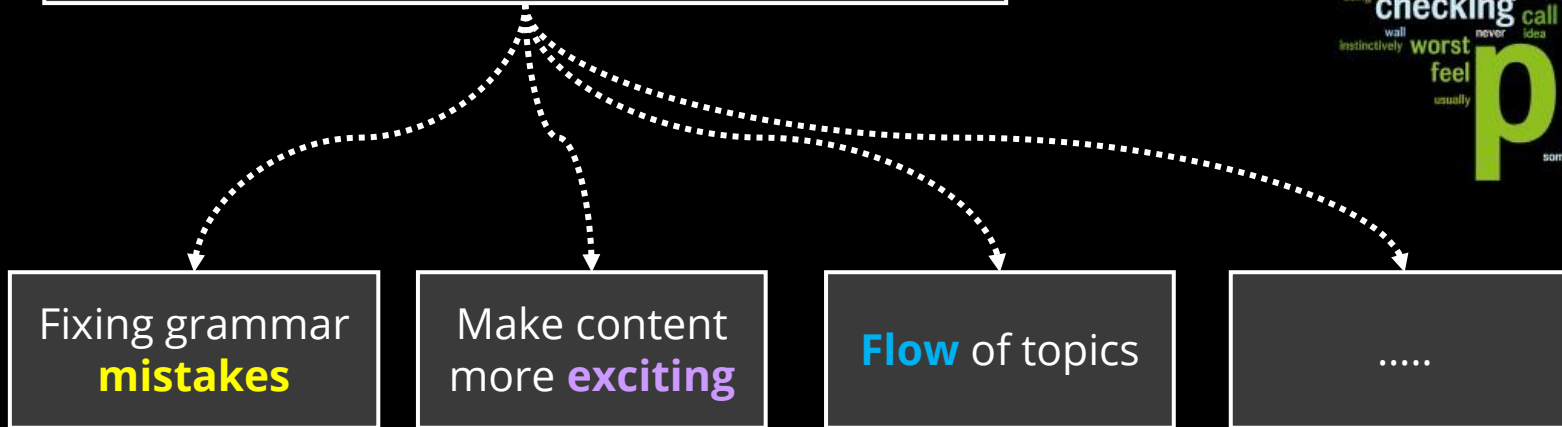
Gen AI

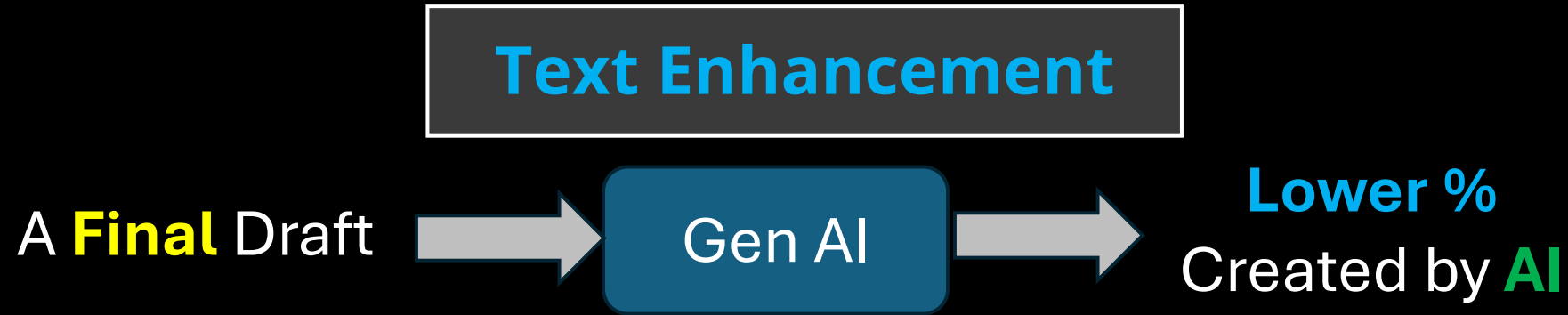
Chapter #3



Gen AI

Use Case – Text Enhancement





“Garbage **in**, Garbage **Out**...”

Use Case – Code Generation

Not just for
Developers!

Making
programming
**more
accessible**

Required
syntax

Best Practice
Methods

```
31 def __init__(self, settings):
32     self.file = None
33     self.fingerprints = set()
34     self.logdups = True
35     self.debug = debug
36     self.logger = logging.getLogger(__name__)
37     if path:
38         self.file = open(os.path.join(path, 'requests.log'),
39                          'a')
40         self.file.seek(0)
41         self.fingerprints.update(e.request() for e in self.file)
42
43 @classmethod
44 def from_settings(cls, settings):
45     debug = settings.getbool('SUPERFUTUR_DEBUG')
46     return cls(job_dir(settings), debug)
47
48 def request_seen(self, request):
49     fp = self.request_fingerprint(request)
50     if fp in self.fingerprints:
51         return True
52     self.fingerprints.add(fp)
53     if self.file:
54         self.file.write(fp + os.linesep)
55
56 def request_fingerprint(self, request):
57     return request_fingerprint(request)
```



WORDPRESS

Open-source Framework –
Web Development

Extended with WordPress Plugins

My Project

Component #1

Component #2

Component #3

Gen AI

Ideas

Code Syntax

Best practices

Quick solutions



AI-Based Applications for Software Development

The screenshot displays the Visual Studio Code interface with the Extensions Marketplace open. The left sidebar lists several AI-related extensions, including GitHub Copilot, Tabnine, IntelliPHP, Blackbox AI, CodeGPT, and Codeium. The main panel shows the details for the GitHub Copilot extension, version 1.229.0, which has 19,936,399 downloads and a 4.5-star rating. The extension is described as 'Your AI pair programmer'. Below the extension details, there is a section titled 'Integrated Development Environments (IDEs)' which is highlighted by a semi-transparent box. This section lists the available routes in the Flask application, such as the root route (/), the /todos route, and the /delete-todo route. The code for these routes is shown in a code editor, and the application's dependencies are listed in the README file. The bottom of the screen shows the status bar with the file name 'main.py' and the language 'Python'.

Integrated Development Environments (IDEs)

When you install Copilot in Visual Studio Code, you get two extensions:

- **GitHub Copilot** (this extension) - Provides inline coding suggestions as you type.
- **GitHub Copilot Chat** - A companion extension that provides conversational AI assistance.

Getting access to GitHub Copilot

Use Case – Content as a Framework

Blog

Story

Article

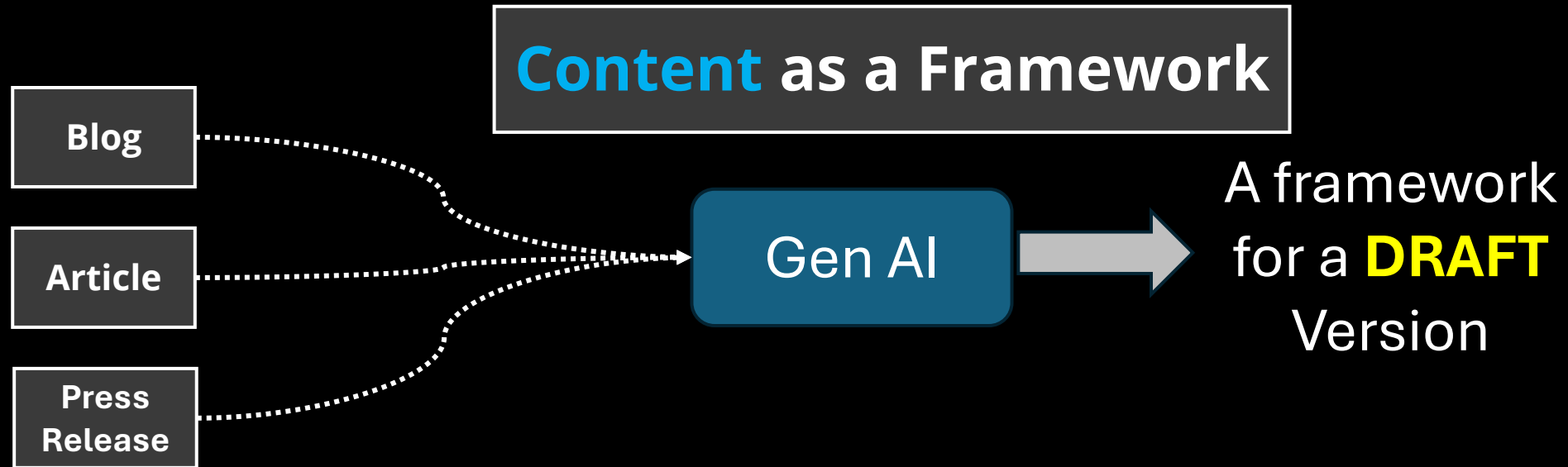
Script

Support
Answer

Press
Release

Post



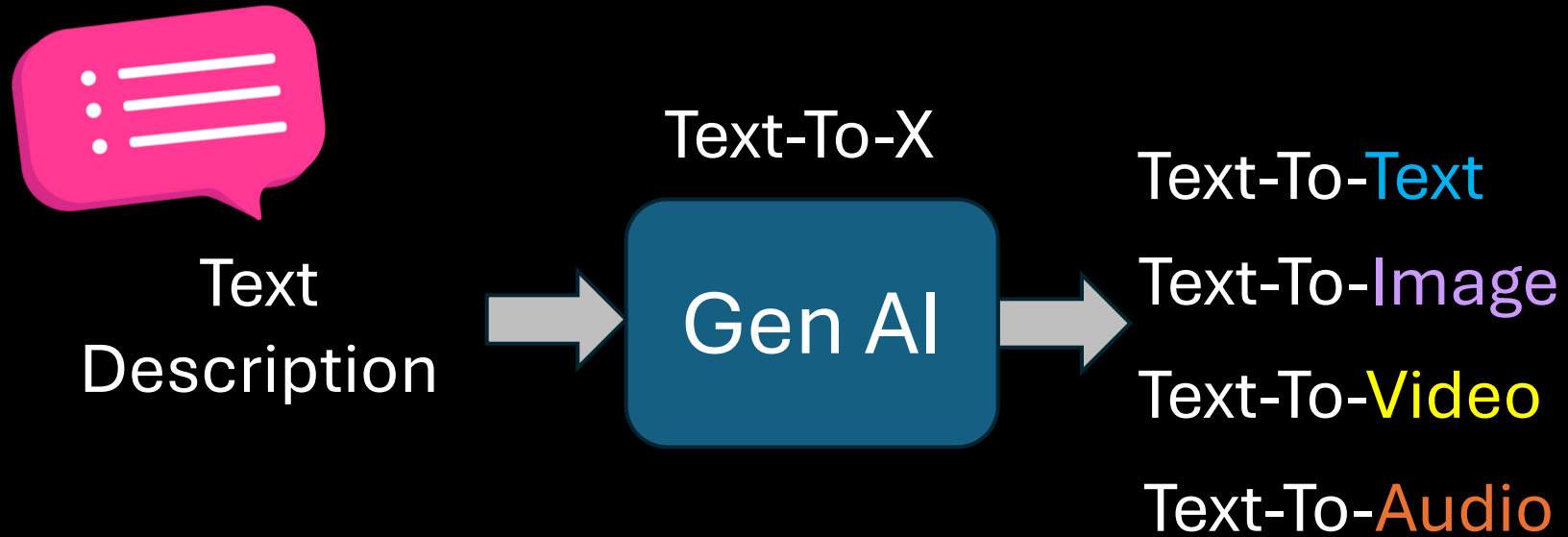


Try to make the content, **YOUR** content.

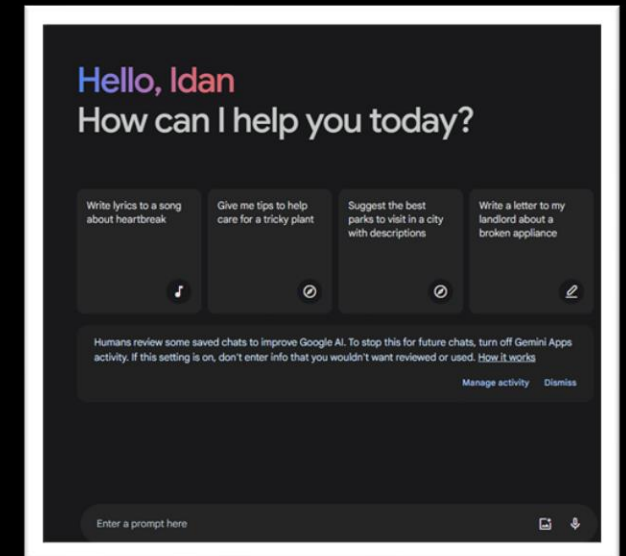
Use Case –
Images on Demand

“A **picture** is worth a thousand words...”





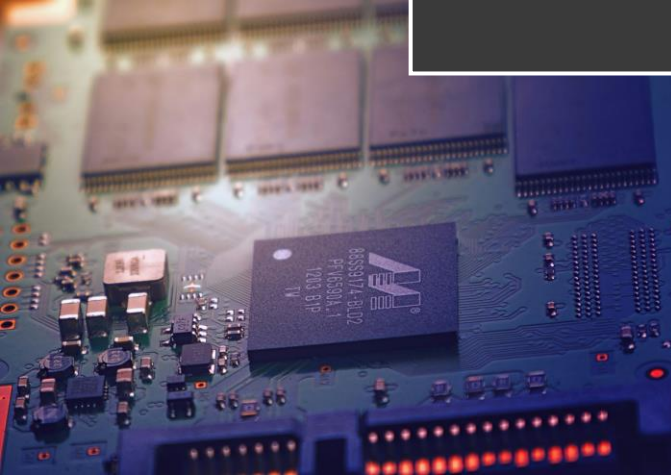
#1 - Web-Based



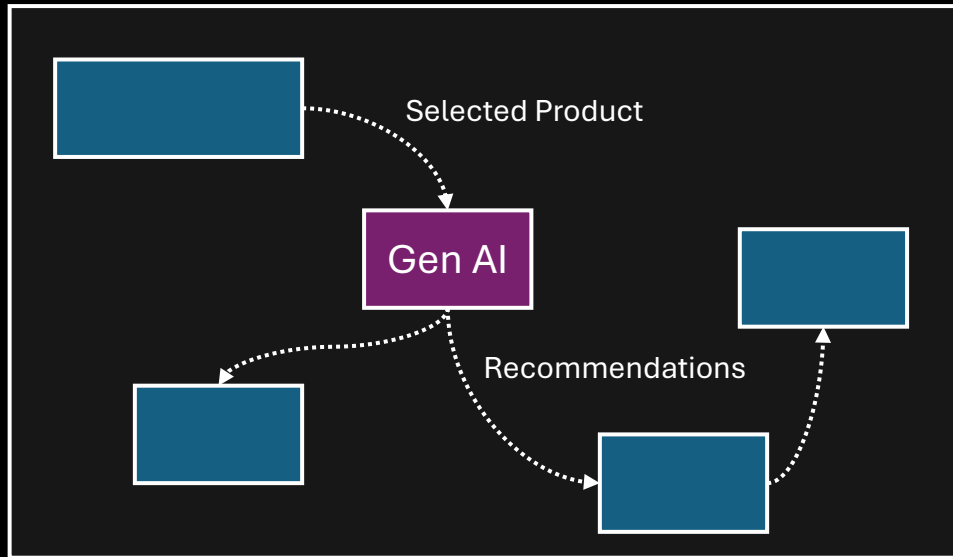
Use Case –
Boosting AI-Based Apps



Each **business workflow**, **process**, and step are **candidates** for integrating **Generative AI** modules as part of a larger application.

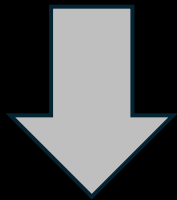


End-to-End Application

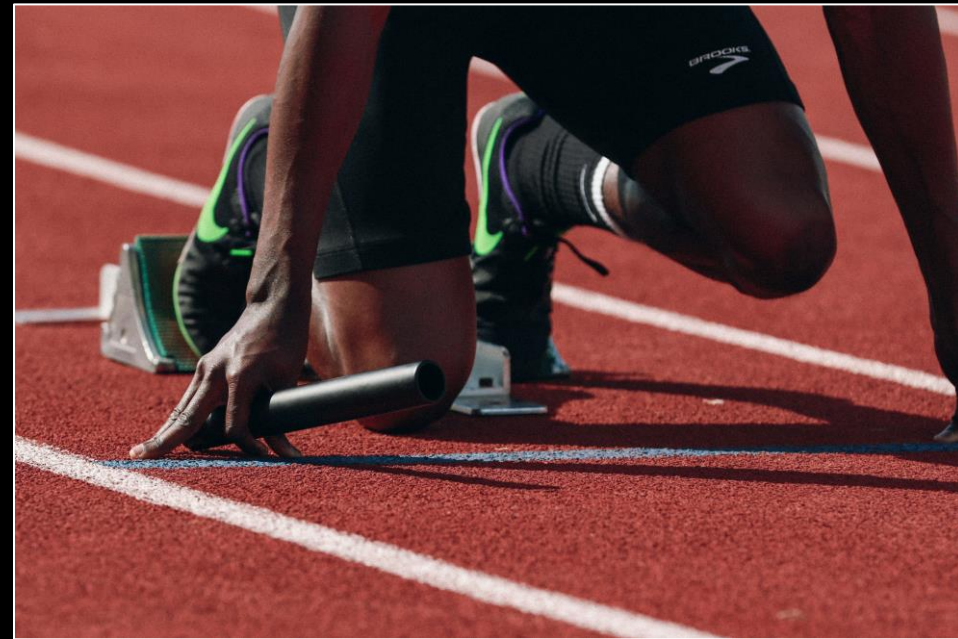


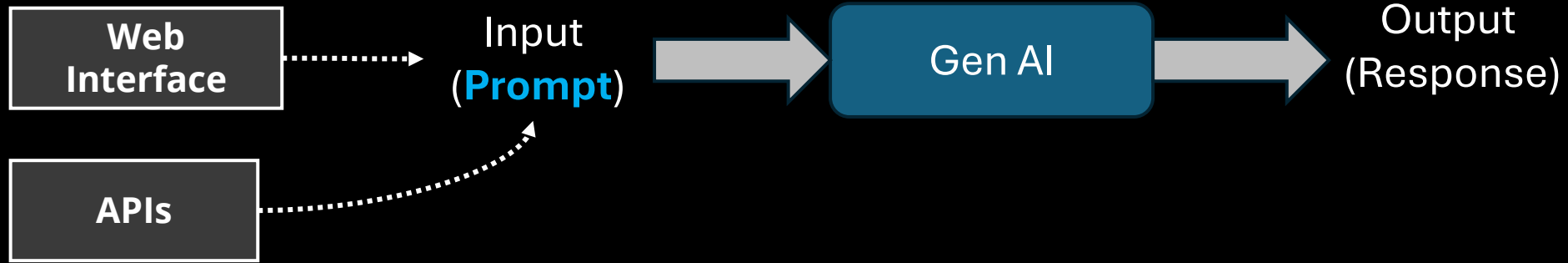
Use Case –
Boosting AI-Based Apps

HUGE potential for
business innovation



The Race is ON!





Prompt Engineering

Engineering better prompts

Prompt Engineering

Engineering better prompts

#1 – Be Specific and Clear

Clearly define what you want the AI to generate

#2 - Use Contextual Information

Providing context that helps the model understand the scenario or background

#3 – Define a Scope and Boundaries

Define the scope of the task

Prompt Engineering

Engineering better prompts

#4 – Structure and Format

Organize input prompt in a logical structure and specify the desired format

#5 – Avoid Confidential Information

Avoid providing any confidential information as part of the prompt

#6 - Request for Simplification or Clarification

If needed, ask it to simplify or clarify the information in specific way

Prompt Engineering

Engineering better prompts

#7 - Encourage Multiple Perspectives

Ask the model to consider different viewpoints or alternatives

#8 - Break Down Complex Tasks

Break a complex task down into smaller tasks

#9 – Iterate and Refine

We can ask something with a group of sequential iterations