

Generative AI

Day 1 - June 24, 2024

Before get start ...

Why this topic?

What you can expect?



A simple portrait of a middle-aged male professional with a thoughtful expression, standing in a minimalist office. He is dressed in a classic business suit and looking directly at the viewer. Above his head is a small, clear thought bubble with the question 'What is the Buzz around?' in bold letters. The background is plain and uncluttered, emphasizing the man's expression and the thought bubble. This image captures a moment of reflection on technological advancements, with a focus on clarity and simplicity.

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Forbes

FORBES > BUSINESS

BREAKING

Nvidia Now World's Most Valuable Company—Topping Microsoft And Apple

What can Devin AI do?

What Devin can do? Devin AI acts as a full-fledged AI software engineer. It can **handle entire projects, from conceptualizing ideas to writing code and potentially even deploying the finished software.** 18 Apr 2024

18 Apr 2024

Bloomberg Professional Services —

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What are the LLM use...

What is the recent...

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smarter AI, and more Pro
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sivakumarrajendran

Just now

+ Collection

/ What are the LLM use cases

What are the LLM use cases implemented by banks in Production

Sources

LLM in Banking and Financial Services:...

ambilio • 1

[PDF] The transformative...

assets.kpmg • 2

The Rise & Role of Large Language...

aisera • 3



View 2 more

Answer

Banks have implemented several Large Language Model (LLM) use cases in production, including:

1. Automated Compliance and Regulatory Reporting:

Banks have implemented several Large Language Model (LLM) use cases in production, including:

1. ****Automated Compliance and Regulatory Reporting**:**

- An LLM interprets regulatory texts, identifies compliance requirements, and automatically generates reports, ensuring adherence to complex regulatory frameworks and reducing human error and regulatory risks[1].

2. ****Automated Application Processing for Enhanced Decision-Making**:**

- An LLM-powered system ingests and processes incoming applications, extracting relevant information, verifying documents, and assessing eligibility criteria. It applies predefined rules, analyzes historical data, and benchmarks against risk models to make informed decisions, streamlining application processing and reducing operational costs[1].

3. ****Automated Credit Underwriting and Risk Assessment**:**

- An LLM analyzes borrower profiles, credit histories, financial statements, and market trends to evaluate creditworthiness, assess risk factors, and determine loan eligibility and suitable interest rates and terms[1].

4. ****Intelligent Customer Support and Query Resolution**:**

- An AI-powered customer support system utilizing an LLM like LLaMA processes customer queries, understanding intent, and retrieving relevant information from the bank's knowledge base, providing accurate and personalized responses, and resolving issues efficiently[1].

5. ****Personalized Financial Advice and Recommendations**:**

- An LLM-powered financial advisory platform integrates with customers' accounts and transaction histories, offering personalized financial advice and investment recommendations based on transactional patterns, customer goals, risk profiles, and market trends[1].

These use cases leverage LLMs to automate tasks, enhance decision-making, and improve customer experiences, leading to significant operational efficiencies and cost savings[1][2][3].



Wait a
second..



First, what is LLM?

A photograph of the exterior of Chai Gpt coffee shop. The building has a modern design with large windows and a wooden facade. A prominent feature is a large, white, stylized sign that reads "Chai Gpt" on the left side. Below the main entrance, there's a display case filled with various coffee-related items like mugs and filters. Several hanging green plants are suspended from the eaves above the entrance. The shop is located on a street with other buildings visible in the background.

Today's session -

Not about serving; It's about coffee beans

***“Real solution
would born only
on knowing the
capabilities and
limitations”***

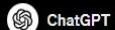


I am sure **100%** of you already tasted this ie., knows about GPT.

Even if not 100%
Or, atleast **99%** of you would be



ChatGPT, the first successful LLM

[Chartlink](#)[F&O OPEN LOW SA...](#) [Open High](#) [F&O OPEN HIGH S...](#) [Pylmagesearch OCR](#) [The Pylmagesearch...](#) [MLOps](#) [Azure DP 900](#) [Stanford](#) [Kaggle Solutions](#) [CNBC](#) [Helium](#) [Maps](#) [AutoRegex: Convert...](#) [NLP Summit - Oct...](#) [All](#)

ChatGPT 3.5 ▾



Today

Generative AI Artistic Image

Word Document Text Extraction

Yesterday

Ask about my dog.

Calculate Tata Motors Book Value

Previous 7 Days

Enhancing Data for Insights

Future Hypecycle Trends

Harvard Business Review Style

LinkedIn Profile Expertise

AI and Vehicle Brands

Imagen da sombra intrigante



How can I help you today?

Help me study

vocabulary for a college entrance exam

Make a content strategy

for a newsletter featuring free local weekend events

Come up with concepts

for a retro-style arcade game

Suggest some codenames

for a project introducing flexible work arrangements

Message ChatGPT...

Activate Windows
Go to Settings to activate Windows.



Pinned



Cooper ✅ @peakcooper · Mar 26

...

#GPT4 saved my dog's life.

After my dog got diagnosed with a tick-borne disease, the vet started her on the proper treatment, and despite a serious anemia, her condition seemed to be improving relatively well.

After a few days however, things took a turn for the worse 1/

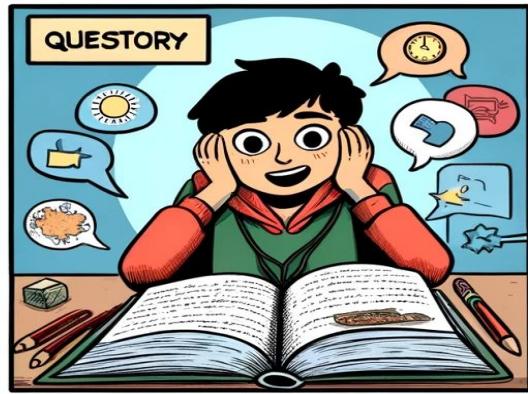
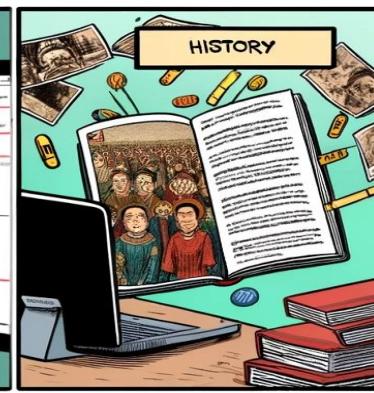
538

8K

26K

10M





A student has difficulty in reading History, uses ChatGPT to summarize paragraph of answer into few lines, input the scanned text book and ask what are the different questions can be asked in this, prepare study aids, flowcharts, mind map diagrams to remember date, place and facts



Wait a
second..

LARGE LANGUAGE MODELS

e
age
els

je



Searching for an information about
'Mr.Beast'
in a
cooking book

Challenges:
Limited to available data
Chance of Success - Low (or) Minimal
No Cognitive



Searching for an information about
‘Does Afghanistan Cricket team exists
when India won 1983 world cup’

Challenges:

- | | |
|-------------------|-------------------------------------|
| Analysis | -> Extensive human effort |
| Chance of Success | -> Low (or) Minimal |
| Cognizance | -> Subject to available information |



Search

1. 'Does Afghanistan Cricket team exists when India won 1983 world cup?'

If no result, search

'When Afghanistan Cricket team played first International match?'

Also, relate

What is the odd of South Africa team to win Cricket World cup...ever?

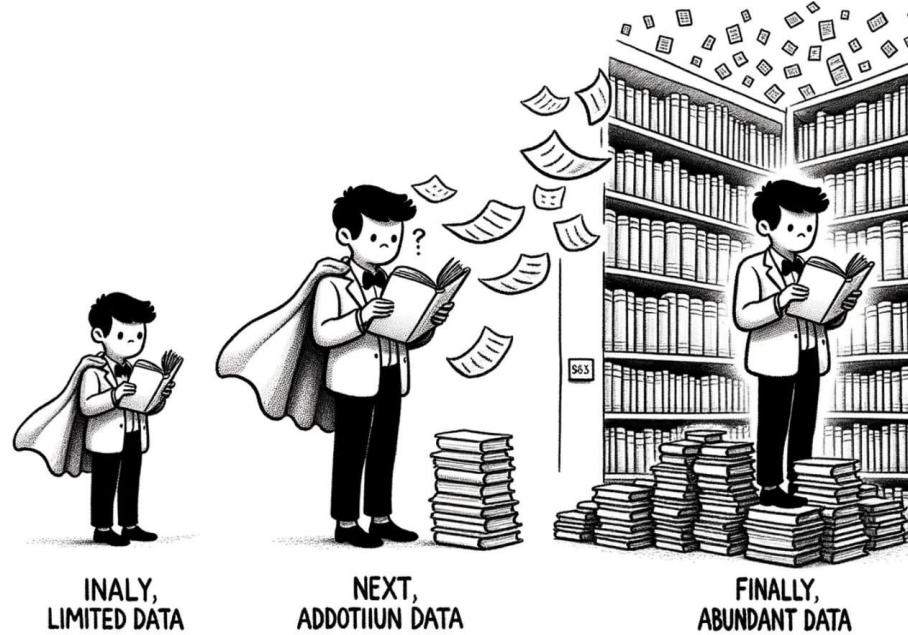
Pros & Cons:

Analysis becomes easy

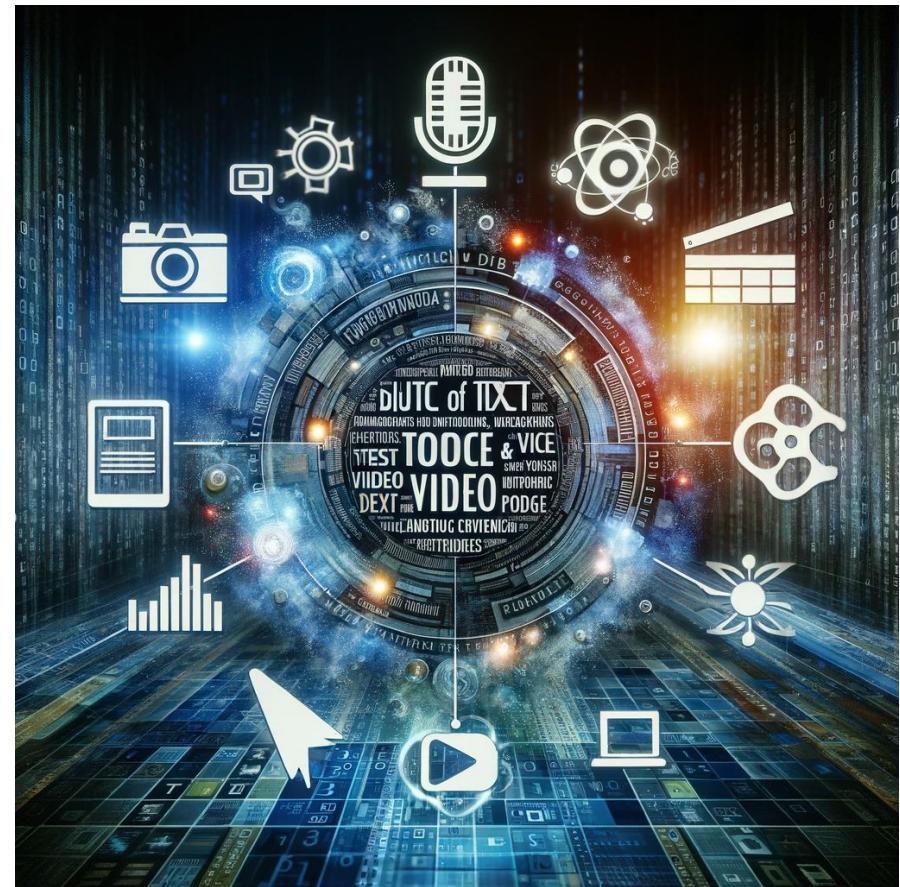
Chance of Success - Medium to High

Additional Cognizance become possible on top of Human Intelligence

So, what is the Evolution (or)
Change here?



Amount of Data, makes the availability of
Information, possible



How about creating a database with

- All books
- All discussion forum
- All Research
- All text in the Internet
- All Images
- All Voices
- All Videos

with *Cognizance* and *Coherent* capability

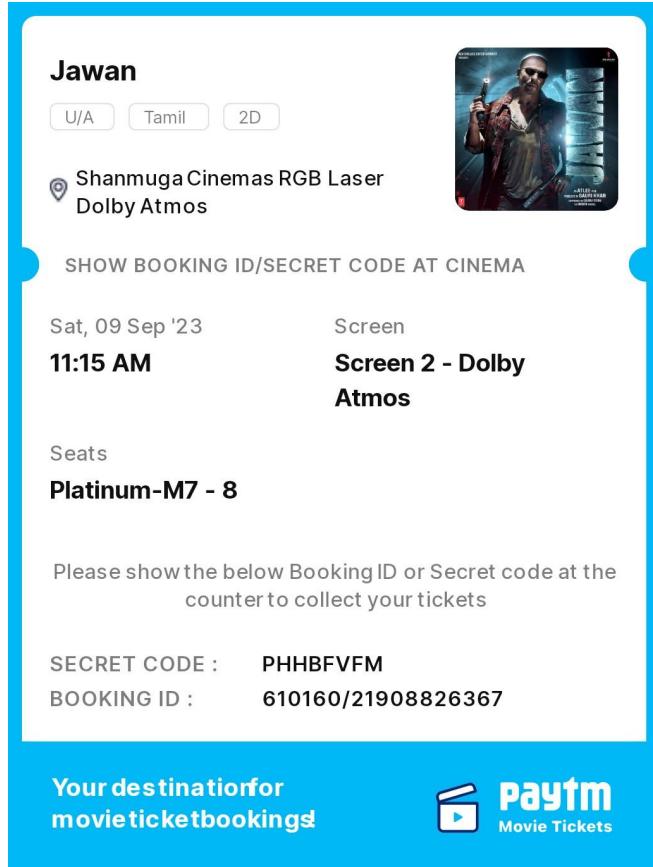


MULTIMODAL CAPABILITIES OF GPT MODELS



Multi Modal 1 - **TEXT**

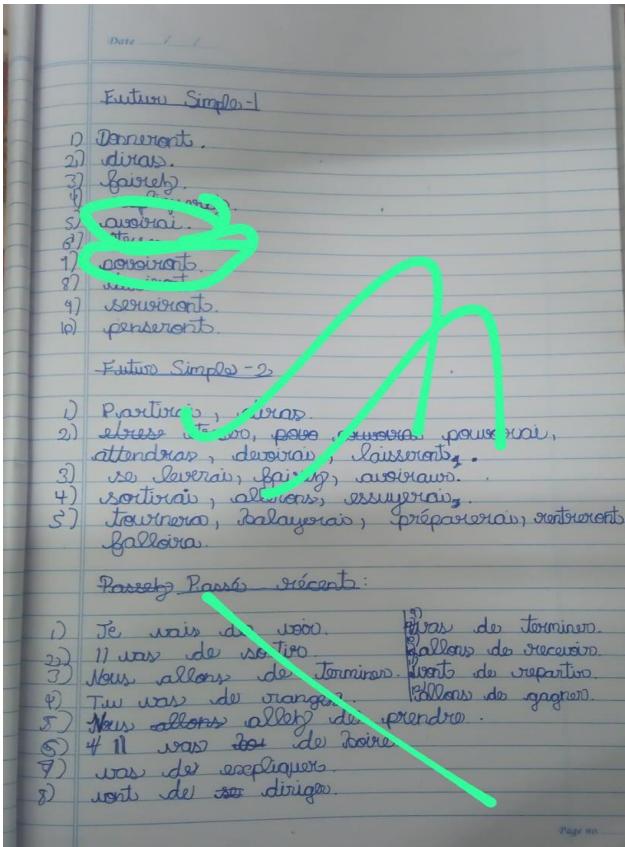
I have uploaded a movie ticket confirmation page in ChatGPT and asked to annotate.
I can boldly say that none of the Named Entity Recognition tool (or) annotation tool is as perfect as this.



- **Movie Title:** Jawan
- **Language:** Tamil
- **Format:** 2D
- **Cinema:** Shanmuga Cinemas RGB Laser Dolby Atmos
- **Date & Time:** Sat, 09 Sep '23 at 11:15 AM
- **Screen:** Screen 2 - Dolby Atmos
- **Seat:** Platinum-M7 - 8
- **Instructions:** You're advised to show the Booking ID or Secret code at the cinema counter to collect your tickets.
- **Secret Code:** PHHBFVFM
- **Booking ID:** 610160/21908826367
- **Platform:** The ticket has been booked via Paytm Movie Tickets.

It seems like you've booked a ticket to watch the Tamil movie "Jawan" on the specified date and time. Always remember to arrive a bit early at the cinema and have the relevant codes or IDs ready for a smooth ticket collection process.

With a curiosity, I tried to understand what are the mistakes done by my son in his French homework...



ChatGPT

Alright, let's take a look at the circled conjugations from the image:

1. Future Simple-1 Section:

- "avoirai": The correct future simple form of "avoir" (to have) for the first person singular (je) is "aurai".
- "aurons": This looks correct for the future simple form of "avoir" for the first person plural (nous). However, without context, it's difficult to say why it might be considered incorrect.

2. Future Simple-2 Section:

- "Partirai": This seems correct for the future simple form of "partir" (to leave) for the first person singular (je).

Without additional context, it's a bit challenging to determine why some conjugations are considered incorrect. It's possible that there's a mismatch between the verb tense being studied and the provided conjugations, or perhaps there's an error in the base verb being used for the conjugation. It's also worth noting that handwriting can sometimes introduce ambiguity, which might lead to misunderstandings.

If you have more specific questions or need further clarification on any of these conjugations, please let me know!



Multi Modal 2 - **IMAGE**

= ChatGPT 4



⋮



you

Chill evening weather walking in the Nehru street, shopping street in Pondicherry



CHATGPT



Here are the visual representations of Nehru street in Pondicherry during a tranquil evening. Please let me know if any of these resonate with your vision or if you want further adjustments



further



Brilliance of LLM in placing French style buildings and colors in the image even those details mentioned explicitly



I haven't mentioned the dressing style (or) South India jewel patterns but LLM understands just by the word PONDICHERRY



This is seriously next level....Vehicle that you could see only in PONDICHERRY or VILLUPURAM...TEMPO in the background



Qf Commucceion anchechine fe rapiene vimation
for emmattore bireeduo ro uu abientatu eladpre,
dctgmgancionl for hsfrep orante.

Multi Modal 3 - **VOICE**

Woman loses Rs 1.4 lakh to AI voice scam: What is it and how not to become a victim

TIMESOFINDIA.COM / Updated: Nov 20, 2023, 10:28 IST



AI songs that mimic popular artists raising alarms in the music industry

"I think artists should be more afraid," one producer says.

By [Nathan Smith](#), [Emily Lippiello](#), and [Ivan Pereira](#)

November 4, 2023, 12:14 AM



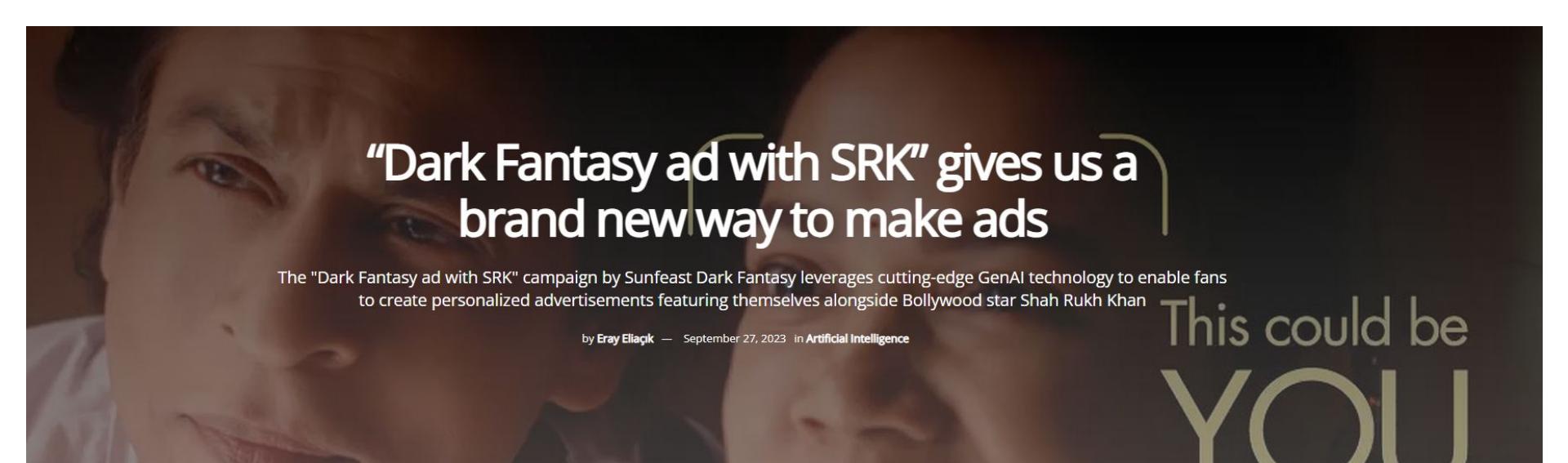
MUSIC

Google's latest AI music tool creates tracks using famous singers' voice clones

NOVEMBER 17, 2023 · 5:01 AM ET



Multi Modal 4 - **VIDEO**



"Dark Fantasy ad with SRK" gives us a brand new way to make ads

The "Dark Fantasy ad with SRK" campaign by Sunfeast Dark Fantasy leverages cutting-edge GenAI technology to enable fans to create personalized advertisements featuring themselves alongside Bollywood star Shah Rukh Khan

by Eray Eliaçik — September 27, 2023 in Artificial Intelligence

This could be
YOU

"<https://pika.art/login>"

On hearing the capabilities, think of Use Case that is possible in your domain

Jawan movie ticket -> Can you read the values from agreements/ forms to feed into UI by improving accuracy and turn around time?

Answer sheet validation -> Can you simulate your QA process from wireframe/ UI?

Text/ Image Creation -> Can you synthesize your test data generation to cover all possibilities of business scenarios?

Voice cloning -> Can you build a product to recognize your customer just with voice (or) product to prevent fraudulent attacks?

Video generation -> Does remote meetings/ trainings are still not native?

Vehicles



Generative AI (Gen AI)



Large Language Model (LLM)



GPT (3, 3.5, 4, 4 Turbo),
BARD, Gemini,
Claude
Grok.....





MI Vs DL Vs GenAI Vs LLM

Can I built own LLM?

What is the Development workflow?

How many different LLM are there?

On top of all....

Use cases

