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# CookGPT : An Emotional and

# Technological Melodrama



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28 articles

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Open Immersive Reader

If you've ever seen a Bollywood movie, you know how the main character often takes a trip down memory lane. Let's dive into a flashback, just like in those movies.

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CH9 [here](#). CookGPT [here](#). New to AI?  
 [here](#).

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## Flashback- Part 1 (Early 80s)

All Grandmas are excellent cooks and there is [science](#) behind [that](#).

As a kid I loved the amazing smells coming from Grandma's ([Ajjii](#)) kitchen. I was amazed watching her cook delicious

dishes. I really wanted to remember how she made those delicious south Indian dishes such as **Rasam**, **Sambhar** and **Puliogere** etc. Her **idlis** were soft, and her **dosas** were crispy. Tried memorizing and later scribbling down her recipes on a piece of paper, but sadly, as time went on, I kind of forgot where I put them. After she passed away those recipes were lost.



## Flashback - Part 2 (Late 80s)

As I grew up in the lively streets of India, I savored the delicious offerings from **skilled food cart** vendors, with **Pani Puris** and **Samosas** being our favorites. Wanting to capture the magic behind these **street food delights**, I tried to memorize them and later audio record them for fun. Sadly, my recordings got misplaced, corrupted, or ruined due to weather conditions, leaving me with only memories of those **fantastic flavors** slipping away. As I grew up those recipes were lost again...



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### Flashback - Part 3 (Late 90s)

I was thrilled when I joined a startup and discovered the [semantic web](#) and [web ontology language](#). Terms like [Hidden Markov Model](#), [Named Entity Recognition](#), and other [semantic technologies](#) sounded fancy but interesting. I also got to know about [Open Knowledge-Based Connectivity \(OKBC\)](#) and [Knowledge Interchange](#)

**Format (KIF).** We played around with tools like [Protege](#) from Stanford University and [FramerD](#), aiming to create products that could make machines understand human knowledge. Some of these technologies were like early versions of what we now call NLP (Natural Language Processing).



When I used these technologies for my recipe sharing projects, I ran into problems with getting everything to

work smoothly for a larger audience. Deploying, scaling up, and maintaining the system turned out to be more challenging than I thought. It was like solving a puzzle, especially when it came to making it user-friendly. Even though I faced setbacks, it taught me a lot about the complexities of bringing advanced technologies like **semantic web** to everyday applications.

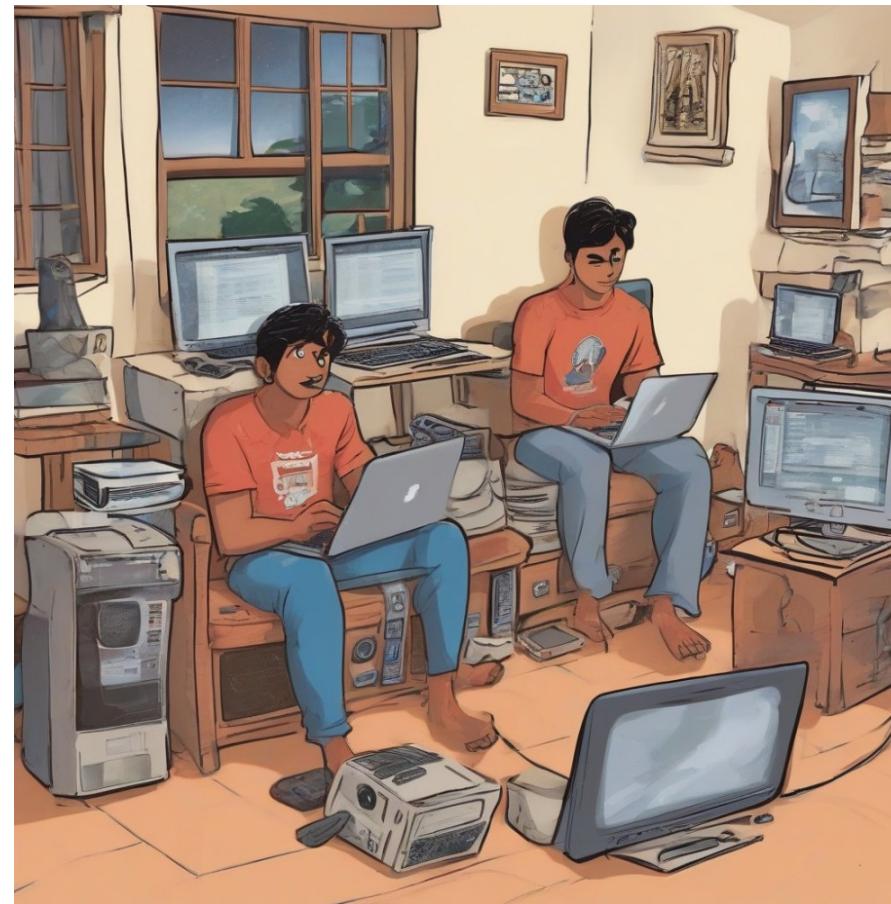
## Flashback - Part 4 (Early 2010s)

My cooking journey hit pause until I found out about machine learning. Excited to revive lost recipes, I dived into different approaches. I wanted to create a system that could sort recipes into categories like appetizers or main courses and group them based on similar ingredients.

I joined by my brother who is an ML enthusiast tried some of the different things back then

- Building a model to **classify recipes into categories** such as appetizers, main courses, or desserts based on their **ingredients and preparation** steps
- Implement **sentiment analysis** on user comments or reviews about the generated recipes to understand user preferences

- Cluster recipes into groups based on similarities in ingredients or flavor profiles.
- Recommend recipes to users based on their historical preferences or similarities to other users
- Analyze the popularity of specific recipes over time or predict future trends in recipe preferences.



However, using machine learning for cooking felt a bit too complicated. We faced challenges like technology limits , lack of digitization and outreach , and not having enough data. It seemed like the cooking world and technology weren't quite ready to work together smoothly back then. Despite the hurdles, the experience taught me a lot and set the stage for future culinary explorations.

## 2016 and Beyond

In this decade, three significant events propelled me towards reviving my efforts.

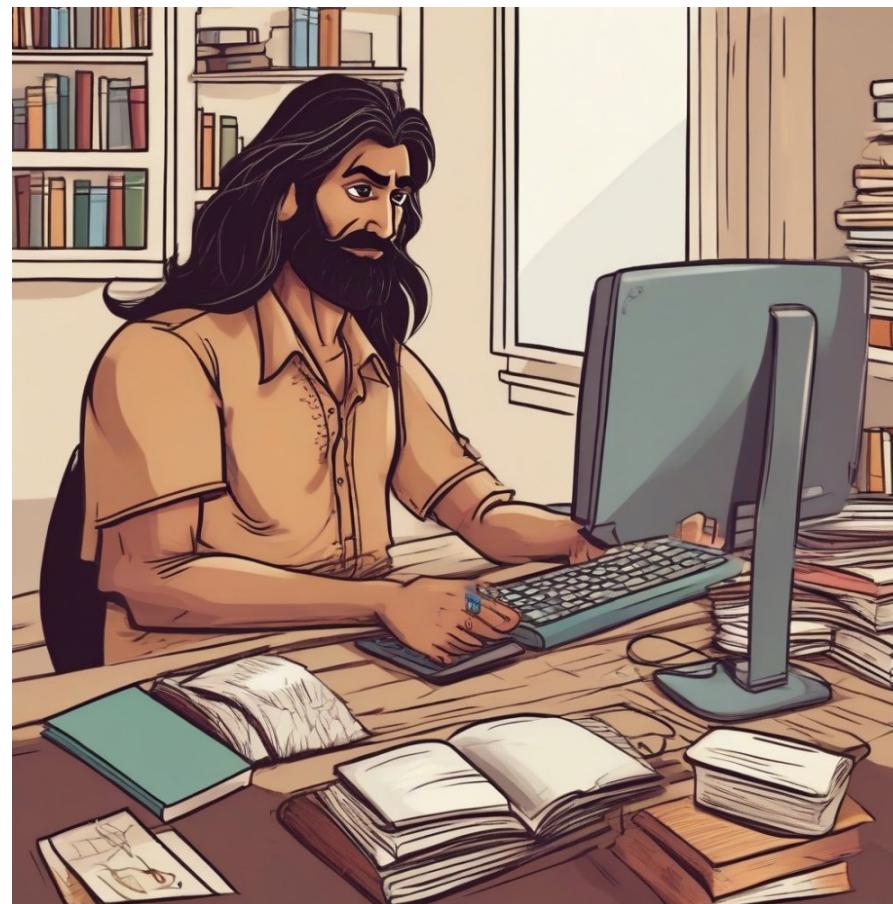
**Digital India Transformation:** India underwent a remarkable shift towards becoming a fully **digital economy** and witnessed a significant increase in internet penetration, with around **~900 million internet users**, making it the second-largest online users globally. Mobile phone ownership became widespread, with smartphone penetration reaching nearly **40%** of the population. Additionally, the introduction of Unified Payments Interface (UPI) revolutionized digital transactions, with UPI becoming the **preferred mode** of payment for millions of Indians. This increased connectivity, accessibility, and ease of digital transactions provided an ideal platform for expanding the

outreach of my open source project **CookGPT**, as more people gained access to online platforms and services.

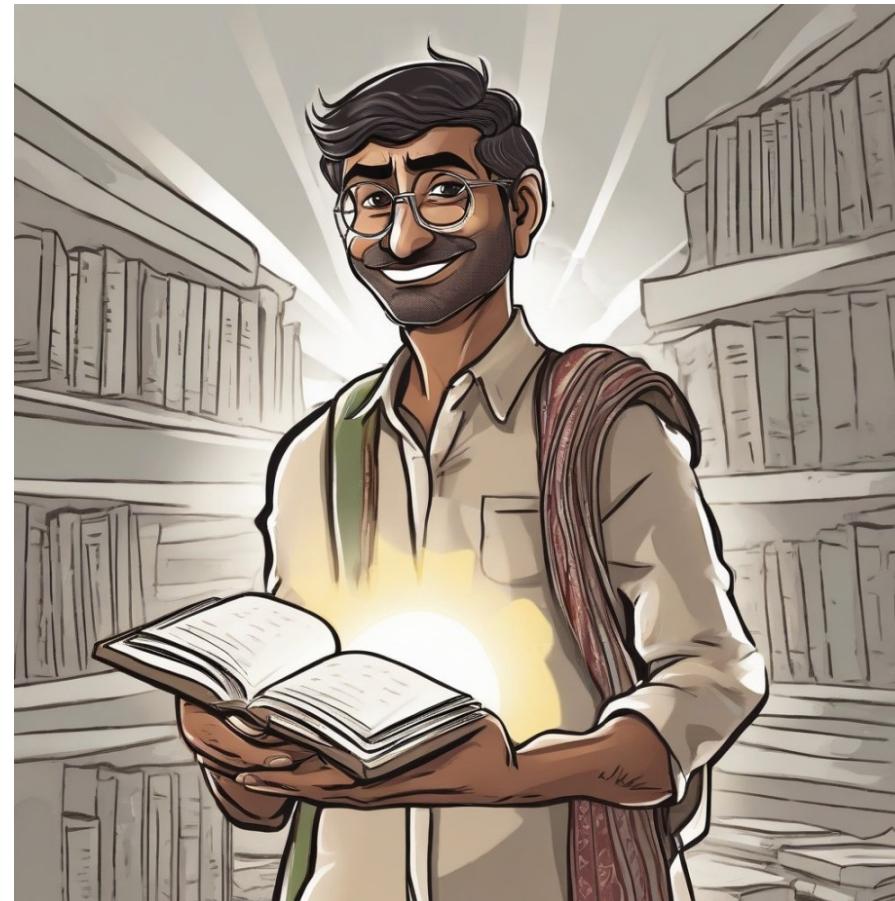


**Technological Advancements:** Another significant development during this period was the advancement in AI technology. Specifically, there was a notable shift from recurrent neural networks (**RNN**) to transformer-based architectures. This transformative shift was largely influenced by the groundbreaking paper titled "**Attention is**

"All You Need" by Vaswani et al., published in 2017. The introduction of transformer-based architectures revolutionized natural language processing tasks and brought about new possibilities and capabilities for AI-driven projects . Additionally, advancements in cloud computing infrastructure made powerful GPUs more readily accessible to developers and researchers. I started reading and researching about NLP and AI again.



**The Book:** On a personal level, I found inspiration to reignite my efforts with CookGPT through my exploration of AI literature. Delving into books that explored both the **philosophical and technical aspects** of AI broadened my understanding of the field. However, **it was one particular book**, gifted to me by someone I deeply respect as a mentor, philosopher, and guide, that sparked my passion to embark on the project once again.



## To be continued ....

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Published by

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People ask me why I'm so passionate about CookGPT and the lost recipes of India. Well, I've decided to write an article for you - straight from the heart....

In this piece, I delve into the emotional, philosophical, and technical aspects behind my dedication to preserving the culinary heritage of India. From cherished childhood memories to the profound impact of technology on our lives, every element plays a role in shaping my journey with CookGPT.

So grab your popcorn and please read the full article. Let's explore the flavors of the past and the possibilities of the future together!   
**#CookGPT #CulinaryHeritage #LostRecipes #passionproject #opensource #genai #ai**



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2d ...

It's quite remarkable to see the way this project adds its unique flavor to LLM, transforming fond memories into a digital format that can be shared and preserved.

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