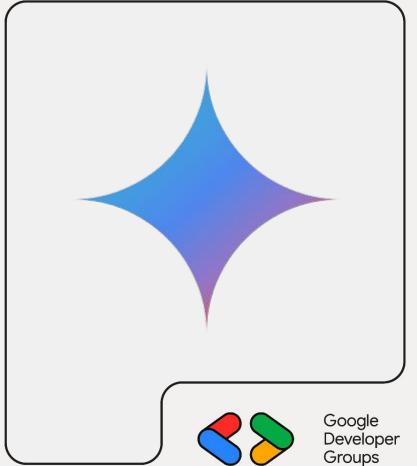


## Gemini in Action: Building Smarter Applications

Dagmawi Esayas (aka Dagmawi Babi)



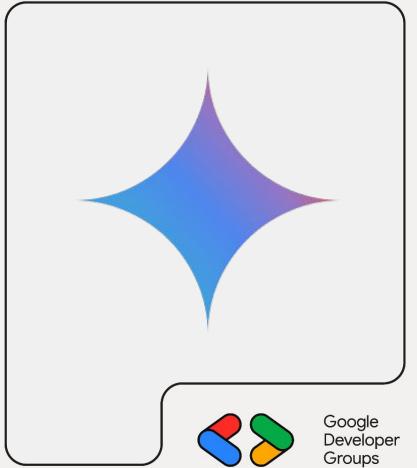




## Gemini in Action: Building Smarter Applications

Dagmawi Esayas (aka Dagmawi Babi)





## Who is this guy?



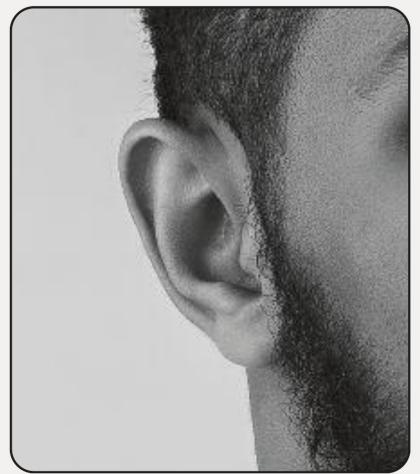
# Full Stack Dev Content Creator Creative Developer Podcast Host Freelancer

also a weirdo at times





## Why should I listen to him?



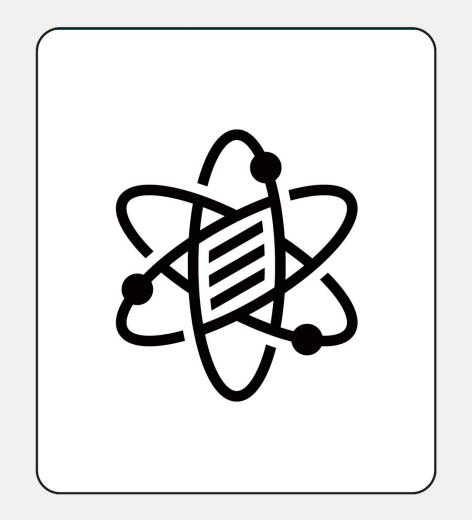
I built ...

#### **ScholArxiv**

"One of the best, open source, beautiful, absolutely perfect, just mind blowing research paper exploring apps out there."

someone probably said this





I built ...

### **ScholArxiv**

**And** 

### Almost got sued!

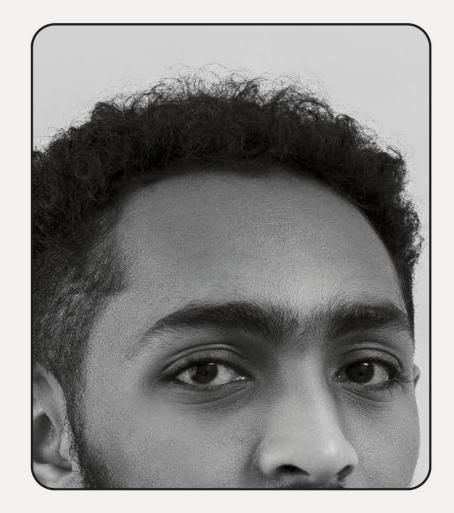
Hello! Just wanted to give you a heads up - "arXiv" is a registered trademark and cannot be used without authorization. arXiv and Cornell's legal team is enforcing this trademark. Right now, ScholArxiv is currently using the arXiv name without authorization. You can see best practices for the use of the arXiv name and logo here: <a href="info.arxiv.org/brand/brand-gu...">info.arxiv.org/brand/brand-gu...</a>
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Oct 18, 2024, 9:05 PM

You accepted the request

## So much eyebrow 🤔



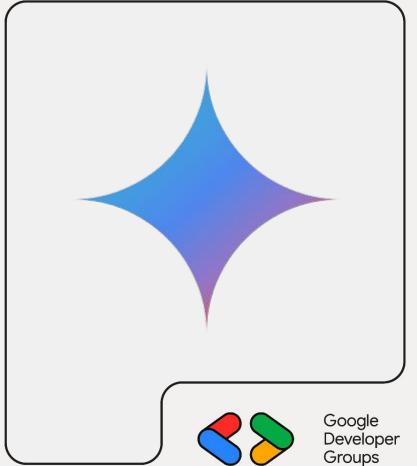




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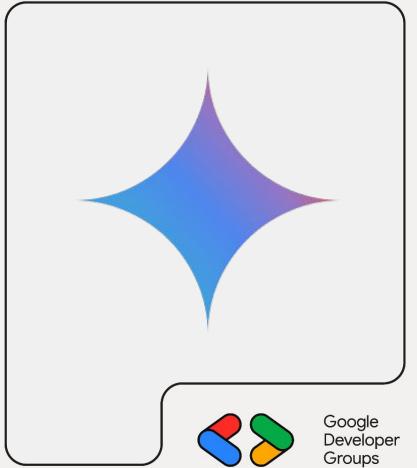




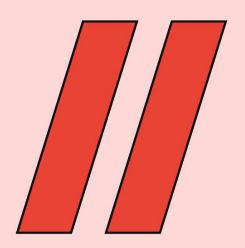
## Gemini in Action: Building Smarter Applications

Dagmawi Esayas (aka Dagmawi Babi)





## Al @DevFest





Google Developer Groups

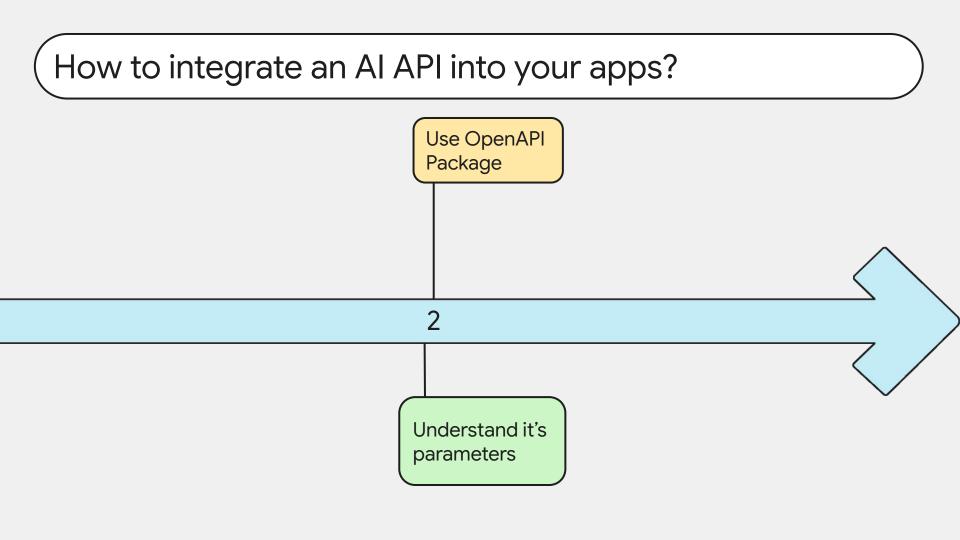
## How to integrate an LLM into your apps

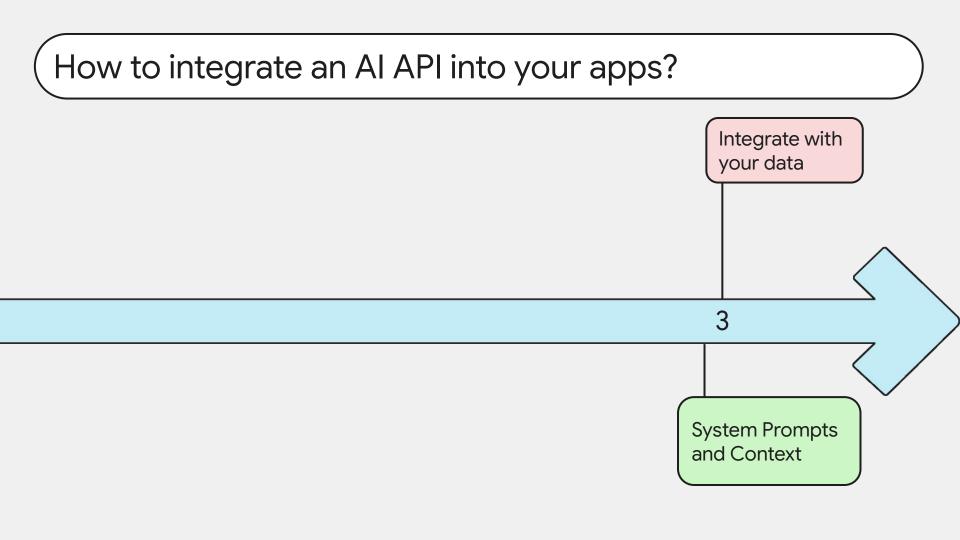
GEMINI – GROK – GPT-40

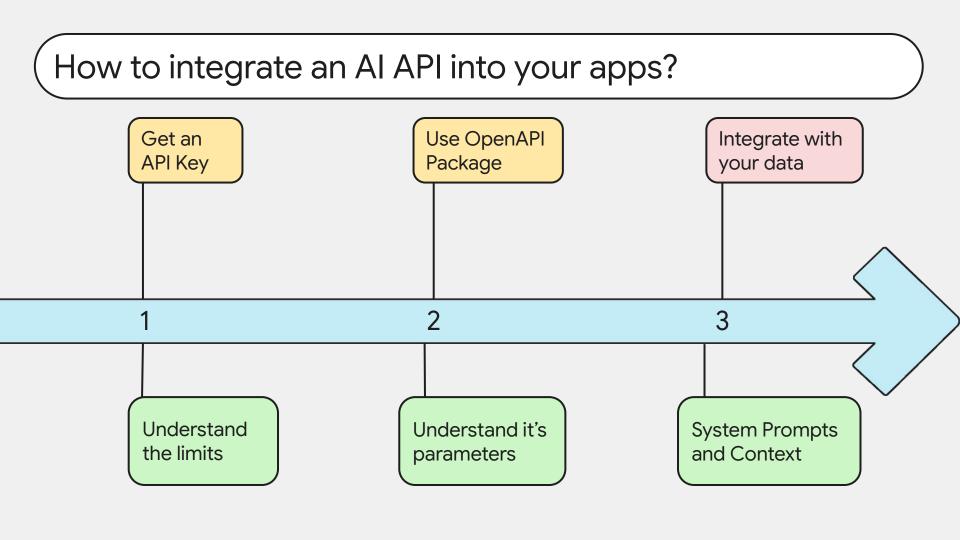
Sonnet - LLaMA - Abebech



## How to integrate an Al API into your apps? Get an API Key Understand the limits







## Steps

(1) (Visit Goog

Visit Google's Al Studio (ai.google.dev)

(2)

(3)

(4)

(5)

## Get started with the Gemini API

Google Al Studio is the fastest way to start building with Gemini, our next generation family of multimodal generative Al models.

Sign in to Google Al Studio

#### Try the 2 million token context window

Explore what is possible with the 2 million token context window.

Try it out

#### Get a Gemini API Key

Grab your API key and start integrating Gemini models into your apps.

Get your API key

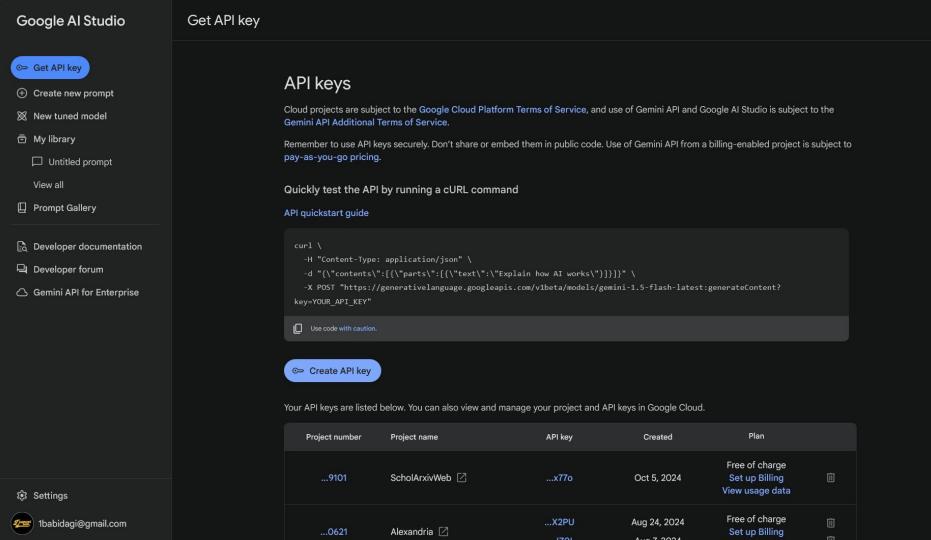
#### **Prompt Gallery**

Visit our prompt gallery for examples of what's possible with Gemini models.

Explore the Gallery

## Steps

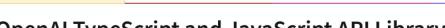
- (1) (Visit Google's Al Studio (ai.google.dev)
- **2** Get your API key
- (3)
- (4)
- (5)



### Steps

- 1 Visit Google's Al Studio (ai.google.dev)
- (2) (Get your API key
- (3) (Install OpenAl Package
- (4)
- (5)





7 Dependencies



Install

4 days ago



#### OpenAl TypeScript and JavaScript API Library



This library provides convenient access to the OpenAI REST API from TypeScript or JavaScript.

It is generated from our OpenAPI specification with Stainless.

To learn how to use the OpenAl API, check out our API Reference and Documentation.

#### Installation

npm install openai

#### Installation from JSR

deno add jsr:@openai/openai npx jsr add @openai/openai

These commands will make the module importable from the <code>@openai/openai</code> scope:

You can also **import directly from JSR** without an install step if you're using the Deno JavaScript runtime:

0 > npm i openai Repository • github.com/openai/openai-node Homepage Ø github.com/openai/openai-node#read... ★ Weekly Downloads 2,356,933 Version License 4.73.1 Apache-2.0 **Unpacked Size Total Files** 2.74 MB 906 Issues **Pull Requests** 69 6 Last publish

import OpenAI from 'jsr:@openai/openai';

## Web @DevFest





## npm i openai



## Mobile @DevFest





## dart pub add openai



### Steps

- (1) (Visit Google's Al Studio (ai.google.dev)
- (2) (Get your API key
- (3) (Install OpenAl Package
- (4) (Understand Limits and Parameters
- (5)

Gemini 1.5 Flash

Text Embedding 004

#### Gemini 1.5 Flash

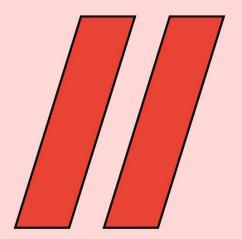
Our fastest multimodal model with great performance for diverse, repetitive tasks and a 1 million context window. Now generally available for production use.

Free of charge	
The Gemini API "free tier" is offered through the A	API service with lower rate limits for
testing purposes. Google Al Studio usage is comp	oletely free in all <u>available countries</u> .
RATE LIMITS	15 RPM (requests per minute)
	1 million TPM (tokens per minute)
	1,500 RPD (requests per day)
INPUT PRICING	Free of charge
OUTPUT PRICING	Free of charge
CONTEXT CACHING	Free of charge, up to 1 million tokens of storage per hour
TUNING PRICE	Input/output prices are the same for tuned models. Tuning service is free of charge.

## Steps

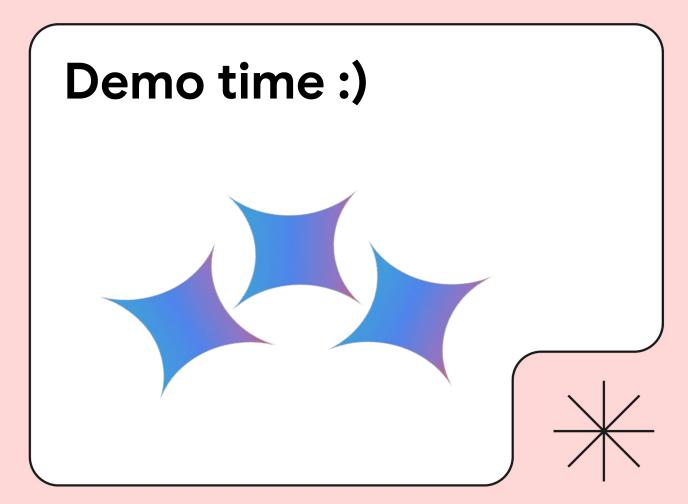
- 1 Visit Google's Al Studio (ai.google.dev)
- (2) (Get your API key
- (3) (Install OpenAl Package
- (4) (Understand Limits and Parameters
- (5) (Dagm is so cool

## Al @DevFest

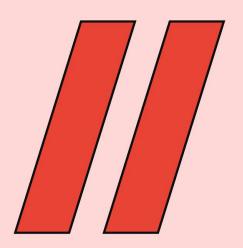




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## Al @DevFest





## What is the world doing with LLMs right now?

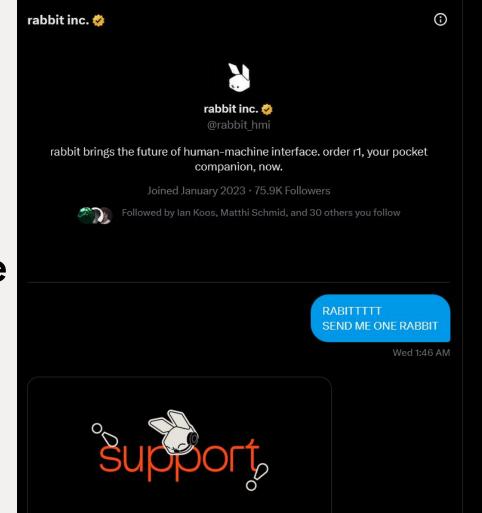
Rabbit R1



## The Rabbit R1 Dream



## Just in time for this talk I asked them to send me one Rabbit R1



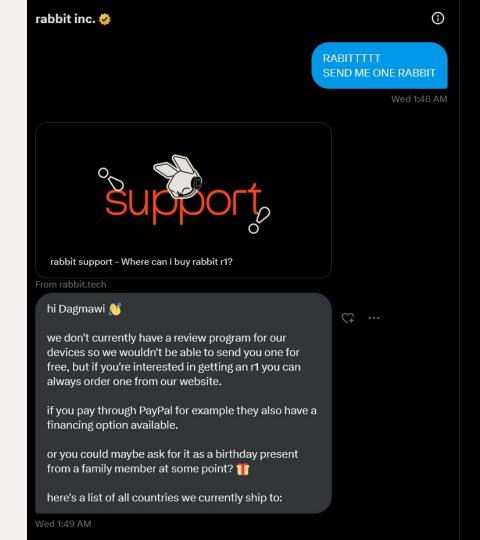
rabbit support - Where can I buy rabbit r1?



## They said no:(

Sorry.





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**Codenight Weekly Digest #004** 

Shipping, Scaling, and Side Projects

平 NOV 2









## Finally...



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#### Remember how I built

### **ScholArxiv**

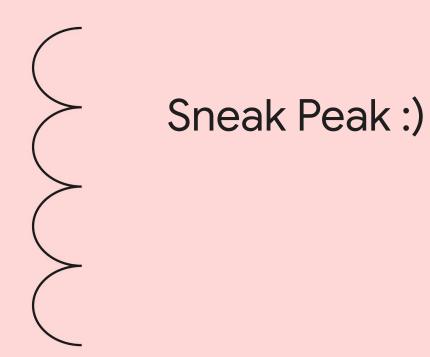
And

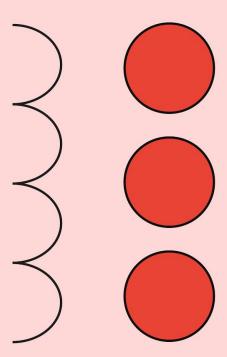
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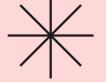






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Al @DevFest









## Thank You So Much! You've been so lovely.



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