

AI Agent가 ( )

: AI Agent — production AI (Hans17 Academy)  
12 ( ) +

1. RAG ?  
gpt - 4o  
text - embedding - 3 - small  
whisper - 1  
dall - e - 3

`1536 text - embedding - 3 - small`
2. RAG ?  
0.8  
0.5  
0.15~0.2  
0.95

`가 0.3`
3. RAG 가 ?  
Pinecone  
in - memory  
Kafka  
Redis

`1`
4. 가 ( ) RAG ?  
in - memory  
localStorage  
Supabase pgvector  
CSV

`DB(pgvector).`
5. API (Claude · OpenAI · ElevenLabs) ?  
  
public  
(.env.local)  
README

`.env.local +`
6. Vercel production ?  
vercel dev  
git push  
vercel - -prod  
npm start

`vercel - -prod`
7. Vercel ?  
vercel env pull  
vercel link  
vercel logs  
npm i

`vercel env pull → .env.local`
8. pgvector ?  
a + b  
1 - (a <= > b)  
a \* b  
len(a)

`<= > , 1 - = . match`
9. (STT) · (TTS) ?  
  
ElevenLabs (Scribe STT + TTS)  
Excel  
FFmpeg

`ElevenLabs Scribe STT, eleven TTS`
10. RAG (hallucination) ?  
  
[n] + ' '  
temperature 1.0

`+`

11. (hans17.com) ?

package.json  
Vercel → Domains  
next.config  
.env

· Vercel Domains 가, DNS Vercel

12. ?

256  
768  
1536  
4096

· text - embedding - 3 - small = 1536  
vector(1536).