

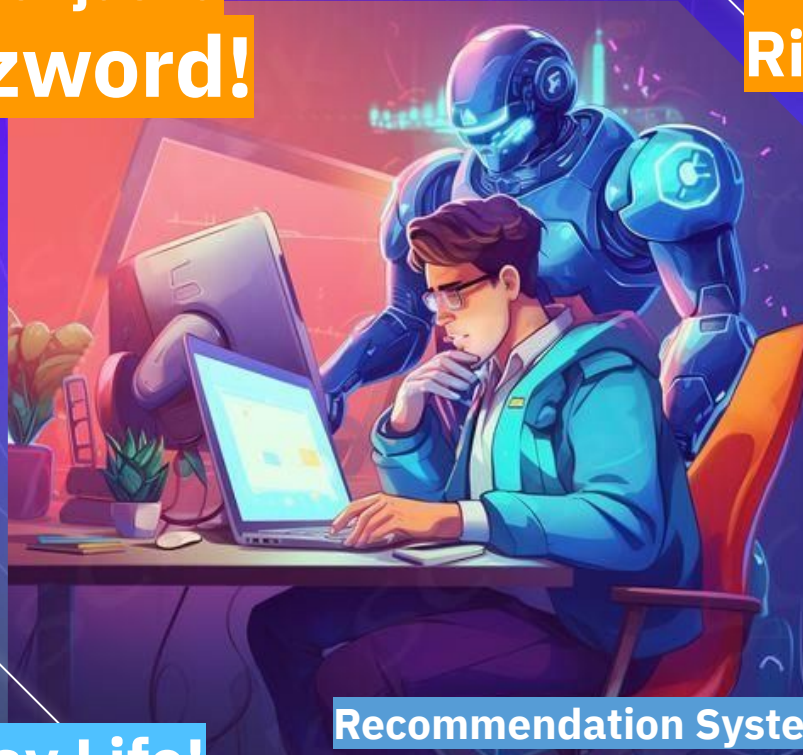


Unlock the future:  
**Built-in AI**  
in browsers

Better start learning to speak robot!

AI is not just a  
buzzword!

AI is  
Rising!



AI in  
Everyday Life!

Recommendation Systems

Virtual Assistants Foods

Autonomous Vehicles

# About me



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Senior Software Engineer  
ING Bank



# It's the plan!

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## Local LLMs

Local vs. Cloud

**02**

## API Overview

Technical

**03**

## Live Coding

Let's do it!

**04**

## Next Steps

What lies ahead?



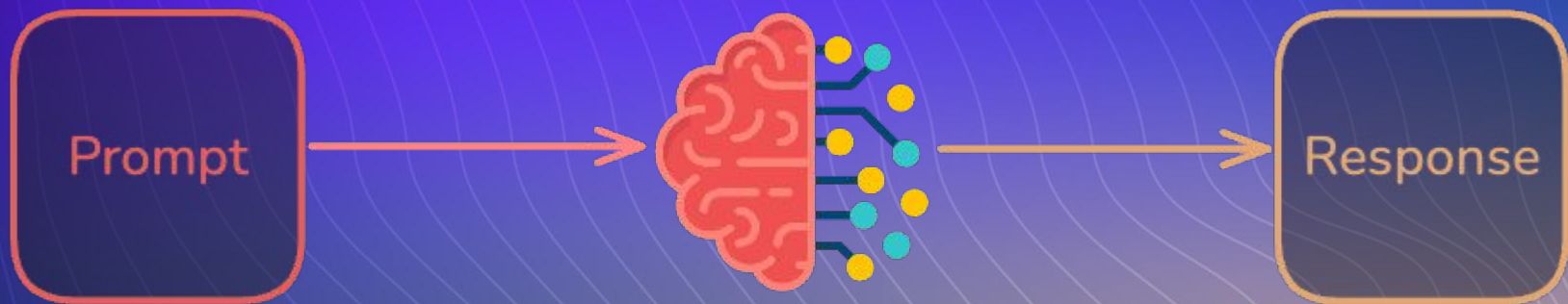


01

# Local LLMs

Local vs. Server

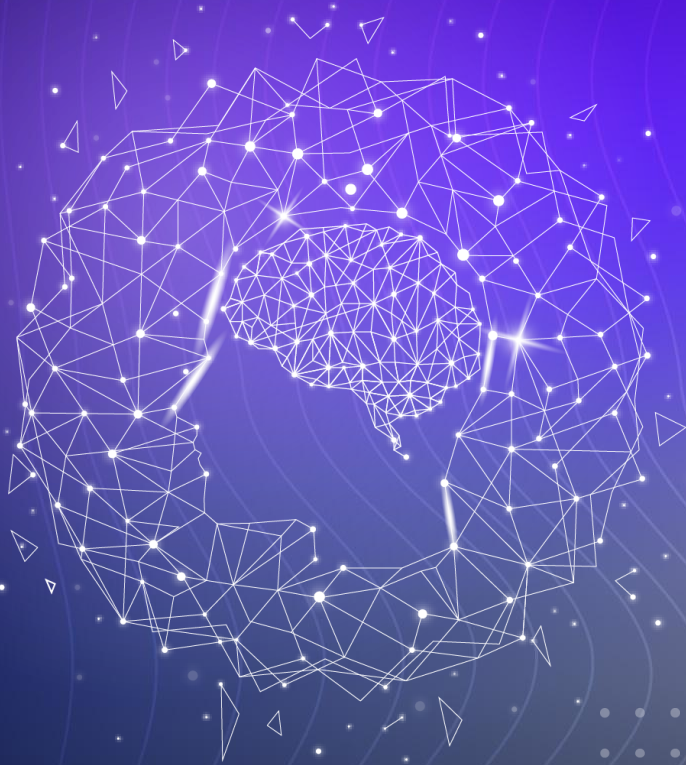
# Prompt to Response



Where is Amsterdam?

Netherlands





# LLMs

A Large Language Model (LLM) is a type of **artificial intelligence** that uses deep learning techniques to understand, generate, and manipulate **human language**.



# Local vs. Cloud

## Local LLMs



Privacy

Low Latency

Low Cost



## Cloud LLMs



Super Power

Network Latency

High costs







02

# API Overview

Technical





## No Machine Learning

ML Expertise is **not** required!



## No AI

AI Expertise is **not** required!

# Prompt API

```
1  const session = await ai.assistant.create();  
2  
3  const response = await session.prompt('Where is Amsterdam?');  
4  
5  console.log(response); // Amsterdam is the capital city of the Netherlands
```

# Prompt Streaming API



```
1  const session = await ai.assistant.create();
2
3  const stream = await session.promptStreaming("Where is Amsterdam?");
4
5  for await (const chunk of stream) {
6    console.log(chunk);
7  }
```



```
1  // Amsterdam
2  // Amsterdam is
3  // Amsterdam is the
4  // Amsterdam is the capital
5  // Amsterdam is the capital city
6  // Amsterdam is the capital city of
7  // Amsterdam is the capital city of the
8  // Amsterdam is the capital city of the Netherlands
```





**Prompt Engineering** can  
make it **better!**

# N-Shot Prompting

```
1  const session = await ai.assistant.create({
2    temperature: 0,
3    topK: 10,
4
5    initialPrompts: [
6      { role: "system", content: "Pretend to be a tour guide" },
7      { role: "user", content: "Netherland" },
8      { role: "assistant", content: "Let's go to Rijksmuseum!" },
9      { role: "user", content: "Italy" },
10     { role: "assistant", content: "Let's go to Colosseum!" },
11   ],
12 });
13
14 const response = await session.prompt("Iran");
15
16 console.log(response); // Let's go to Grand Bazaar!
```



03

# Live Coding

Let's do it!

# Setup AI API



- <chrome://flags/#prompt-api-for-gemini-nano>  
Set to **Enabled**
- <chrome://flags/#optimization-guide-on-device-model>  
Set to **Enabled BypassPrefRequirement**
- <chrome://components>  
**'Check for Update'** on **Optimization Guide On Device Model**





04

# Next Steps

What lies ahead?





<http://goo.gle/chrome-ai-dev-preview-join>

Join Built-in AI Program

**“The best way to predict  
the future is to create it.”**

**— P. Drucker & A. Lincoln**

# Use Cases

- **Classification**, tagging, and keyword extraction of arbitrary text;
- Helping users **compose text**, such as blog posts, reviews, or biographies;
- **Summarizing**, e.g. of articles, user reviews, or chat logs;
- **Generating titles** or headlines from article contents
- Answering questions based on the **unstructured contents** of a web page
- **Translation** between languages
- Proofreading







Sell me this pen.



It's AI powered.

**EVERY COMPANY  
RIGHT NOW**



# AI is everywhere!

Let's be part of it!



# Thanks!

Do you have any questions?  
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