# Setting up Chroma DB

Video 1: What is ChromaDB?

**Tyler Suard**
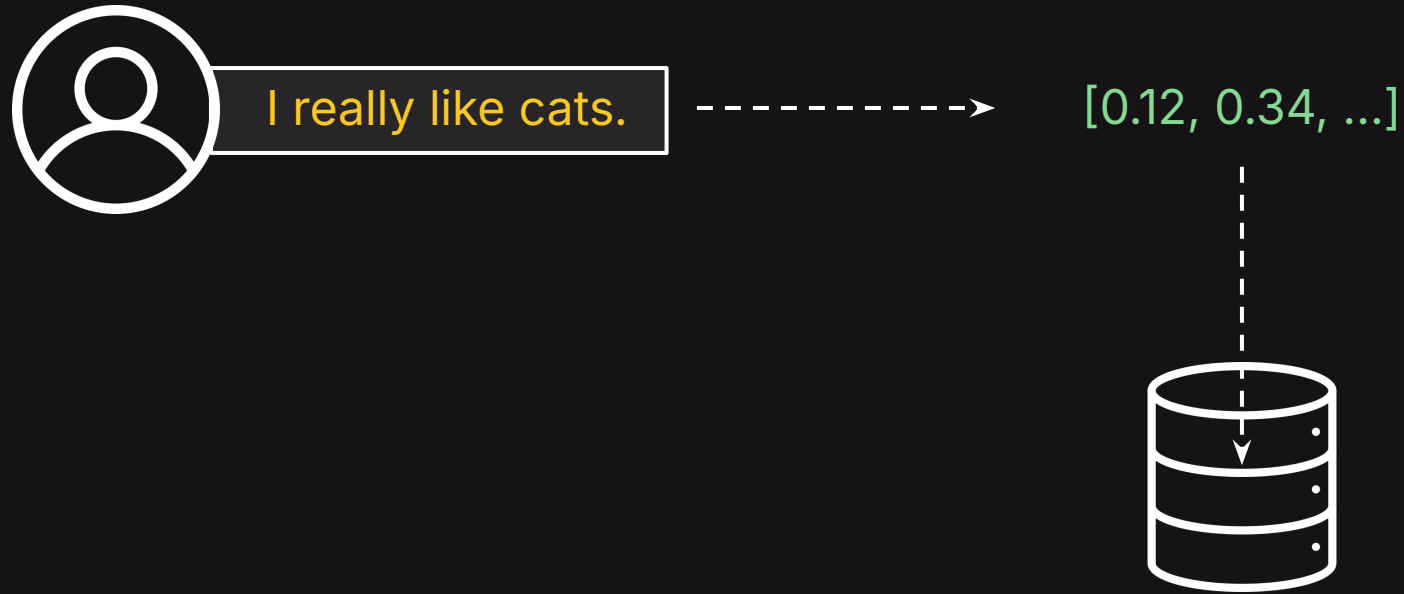Senior AI Researcher and Developer @ Parker-Hannifin
Ex-Apple, Ex-Meta
Author of "Enterprise RAG: Scaling Retrieval Augmented Generation"
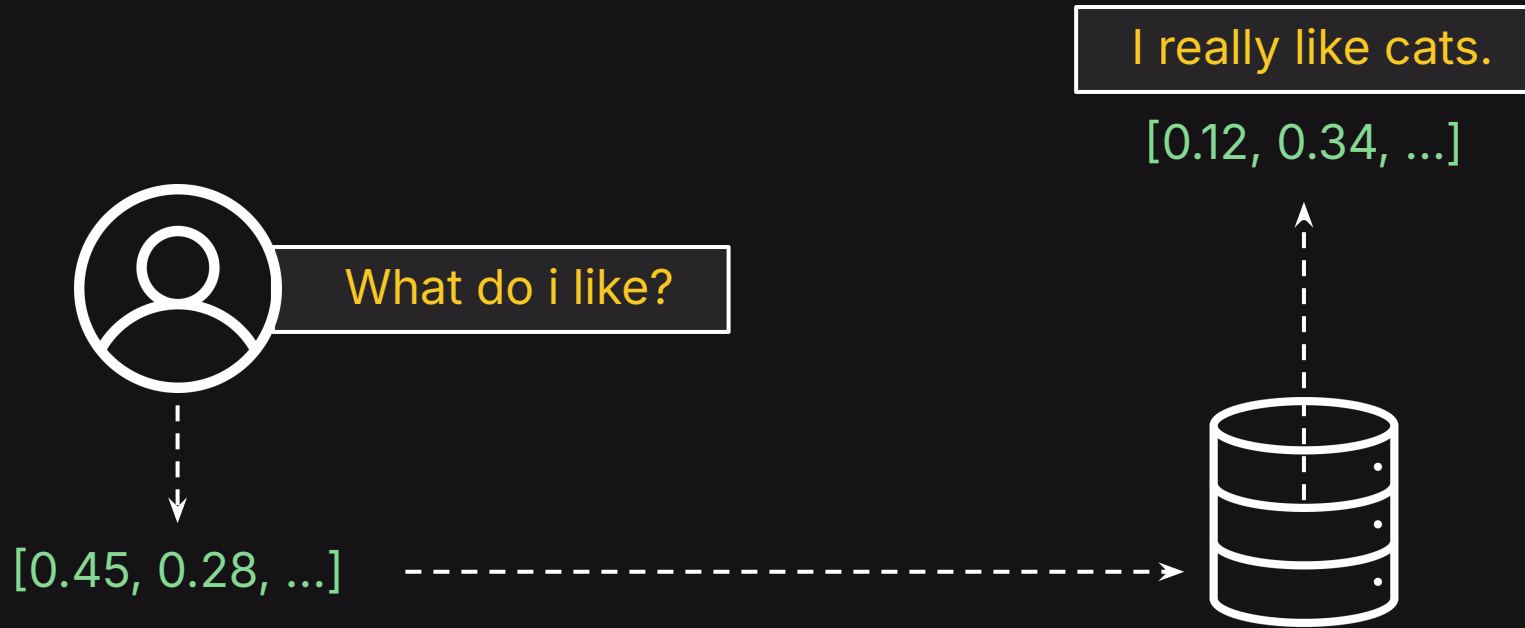
# What is a Vector Database?

- **AI turns whole sentences into numbers**, and those numbers get stored in a database.

- We then look up stuff by **converting another sentence into numbers** and then finding similar numbers in the database.

Analytics
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# Vector Database: Example

I really like cats.

[0.12, 0.34, ...]

# Vector Database: Example

# What Makes ChromaDB Special?

- ChromaDB is a Vector Database with the **simplest syntax ever**.

- It turns **sentences into vectors automatically**, behind the scenes.

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# The Need of a Vector Database

**Why are we using a vector database if they don't work very well?**

- Because our focus is **learning agents**, not RAG.

*Note: Refer to **downloadable resources** section for learning material.*