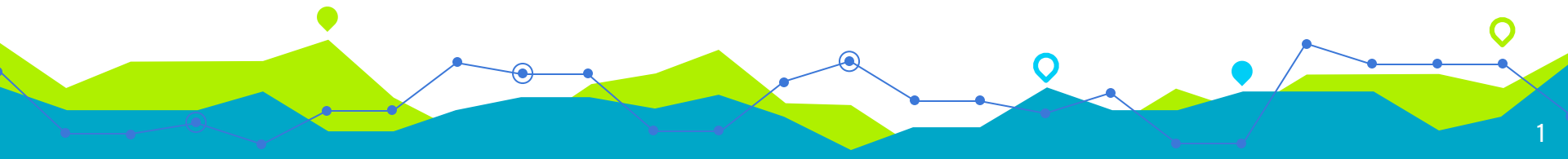


Data Science & AI

Victor Geislinger





“So Who Are You?”

1

Who Am I?



Who Am I?

Teacher
Software (ML)
Engineer
Data Scientist



Who Am I?

**Physics & Math
Degrees**

**Teacher
Software (ML)
Engineer
Data Scientist**

Who Am I?

**Physics & Math
Degrees**

**Teacher
Software (ML)
Engineer
Data Scientist**

**Creating AI
Especially With
Natural
Language**



What is Data Science & AI?

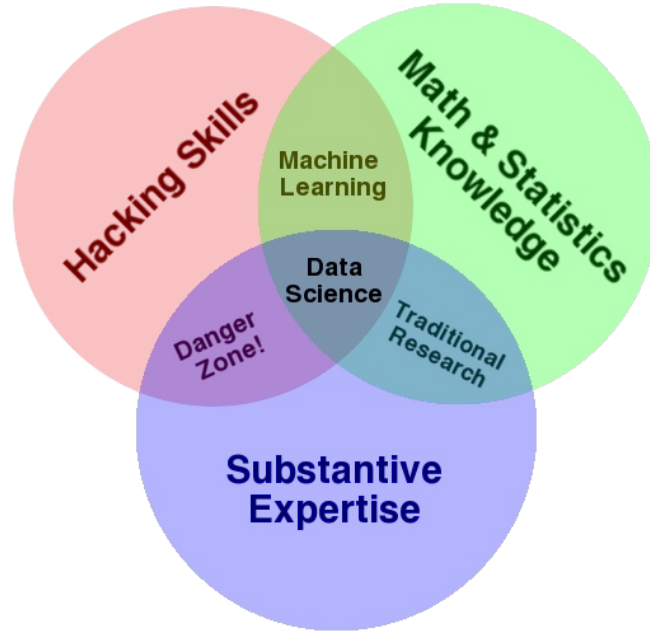
You might already be using it

2

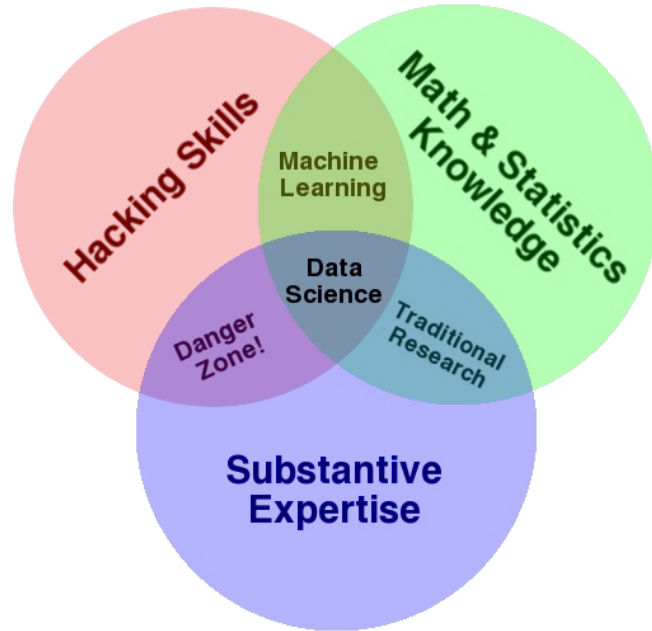
Data Science



What is Data Science?

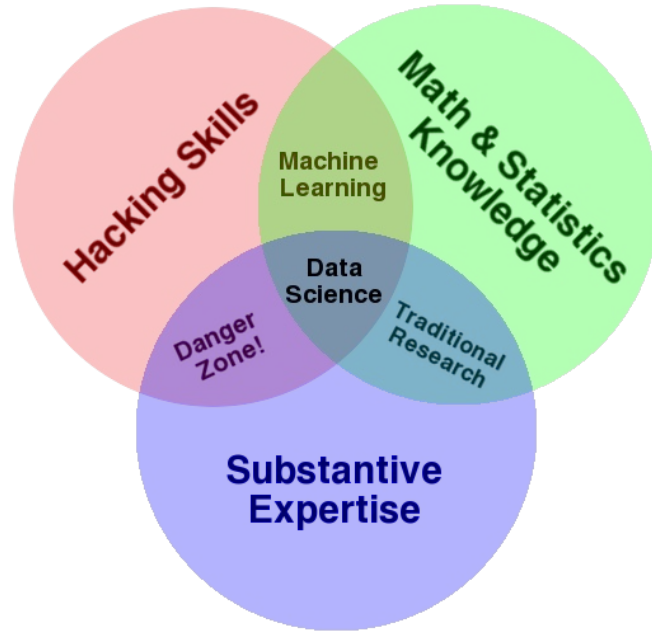


What is Data Science?



Various Subjects (Cross-Disciplinary)

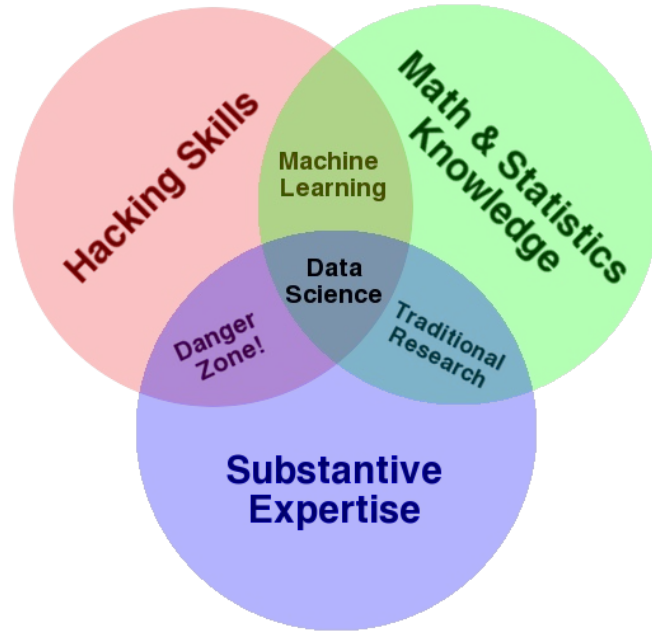
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Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

What is Data Science?

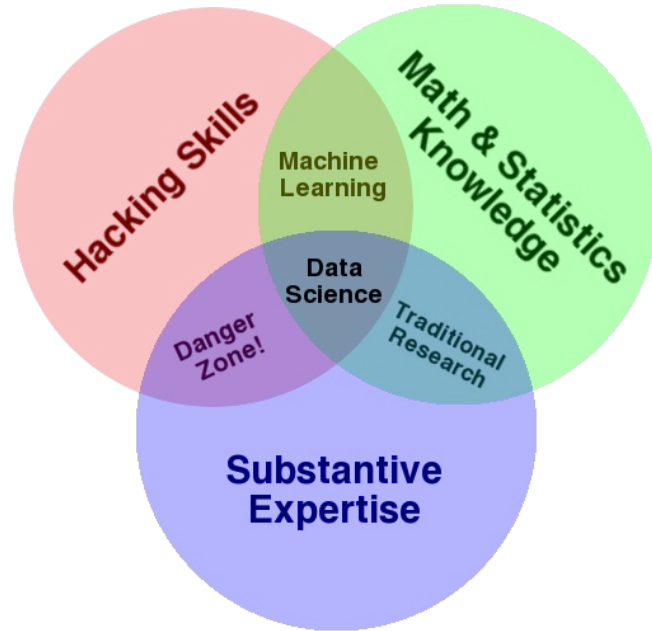


Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

Connecting Math to the Real World

What is Data Science?



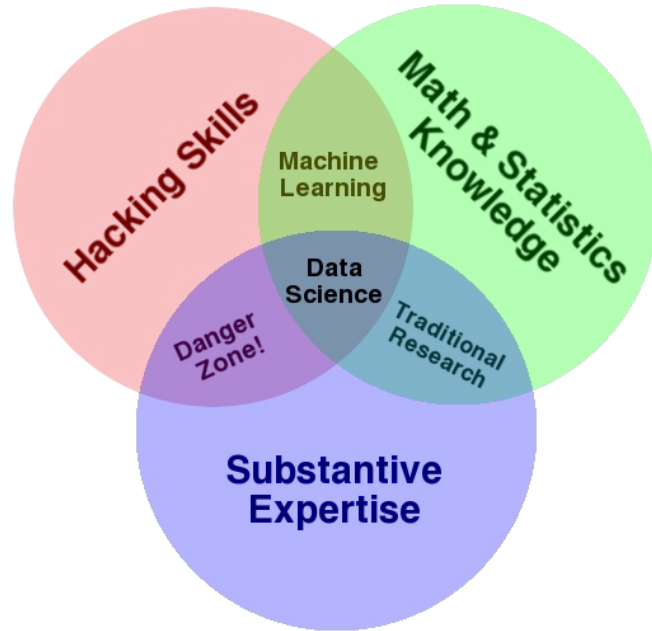
Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

Connecting Math to the Real World

Communicating Ideas

What is Data Science?



Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

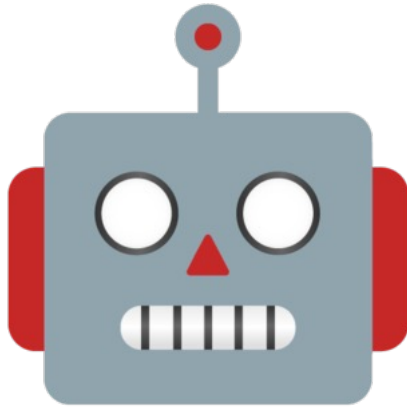
Connecting Math to the Real World

Communicating Ideas

Artificial Intelligence (AI)

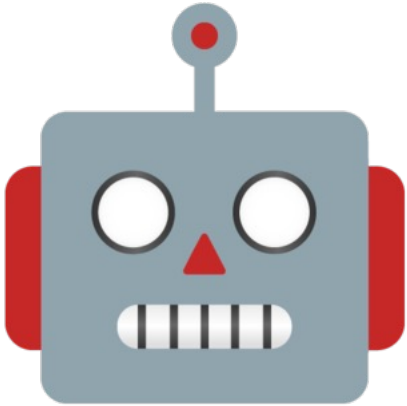


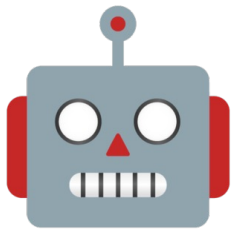
What is AI?



What is AI?

Past Information (“Data”) to Make “Better” Decisions





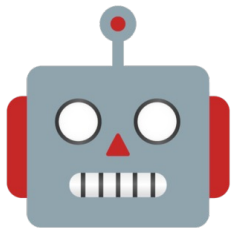
What is AI?

Past Information (“Data”) to Make “Better” Decisions

Predicting

?



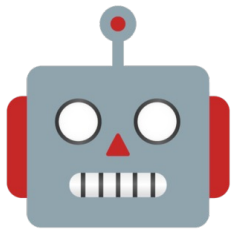


What is AI?

Past Information (“Data”) to Make “Better” Decisions

Predicting



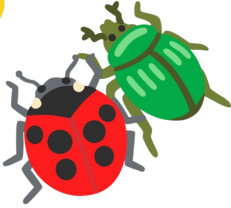


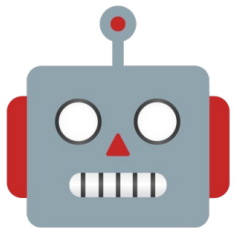
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Past Information (“Data”) to Make “Better” Decisions

Predicting

Classifying Groups





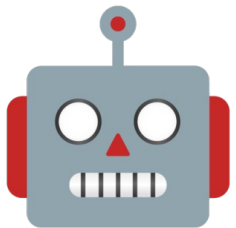
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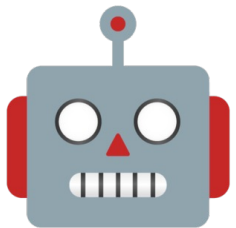
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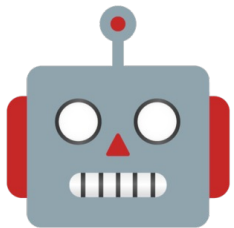
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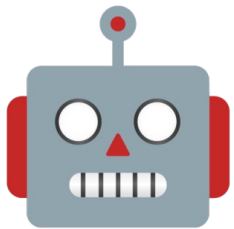


Predicting

Classifying Groups

“Reinforcement Learning”





What is AI?

Past Information (“Data”) to Make “Better” Decisions

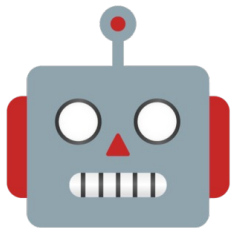


Predicting

Classifying Groups

“Reinforcement Learning”





What is AI?

Past Information (“Data”) to Make “Better” Decisions

Predicting

Classifying Groups

“Reinforcement Learning”

Generative

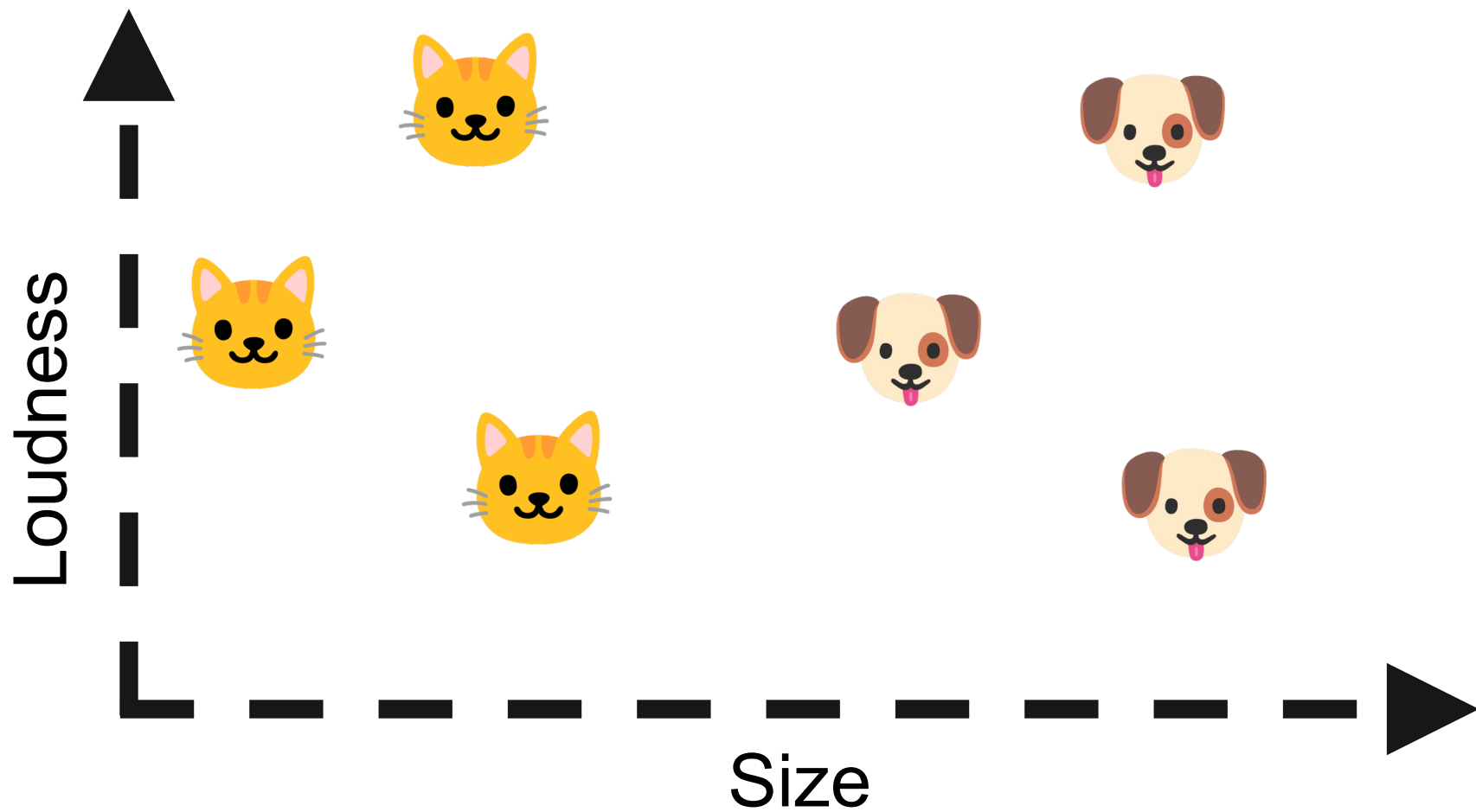


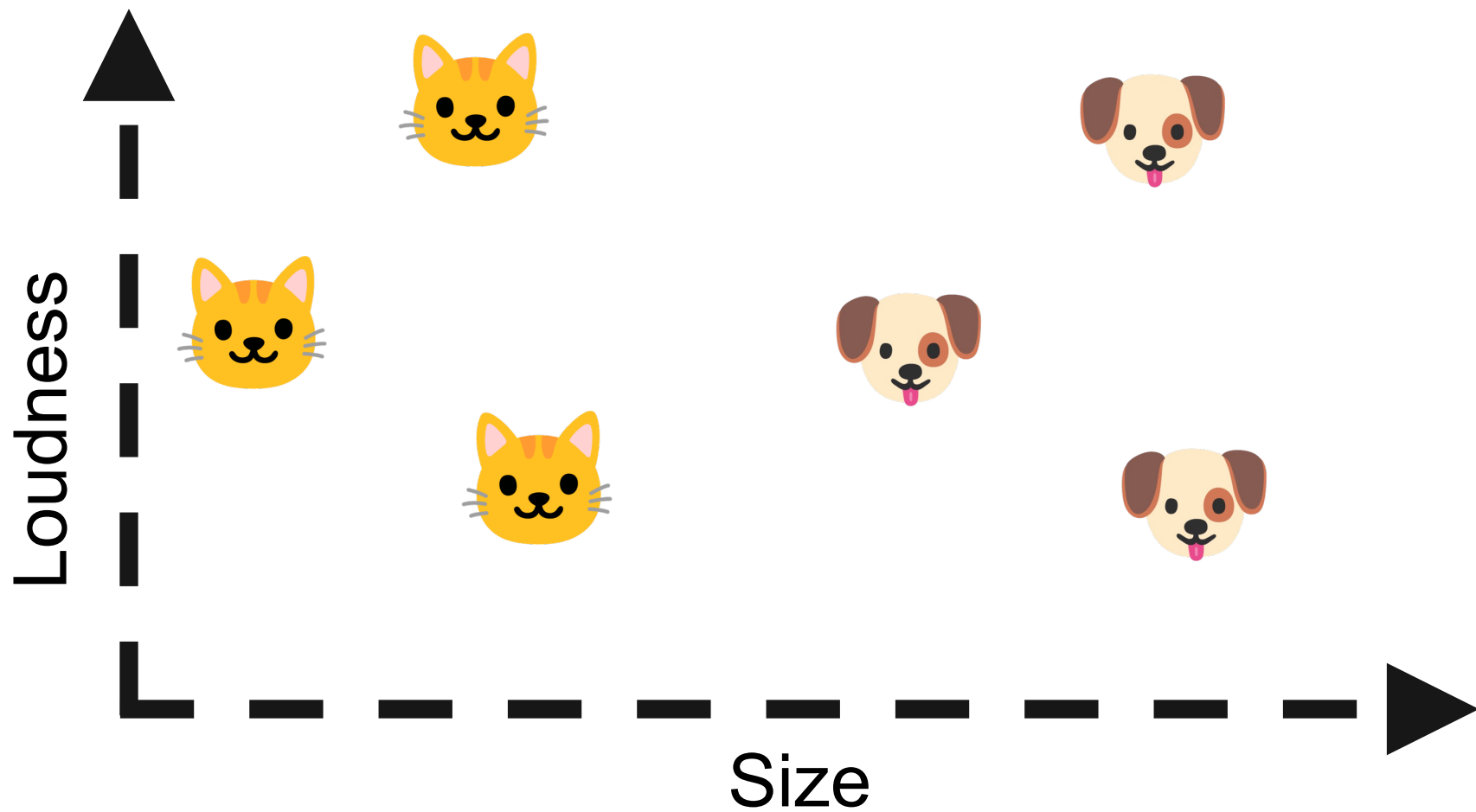


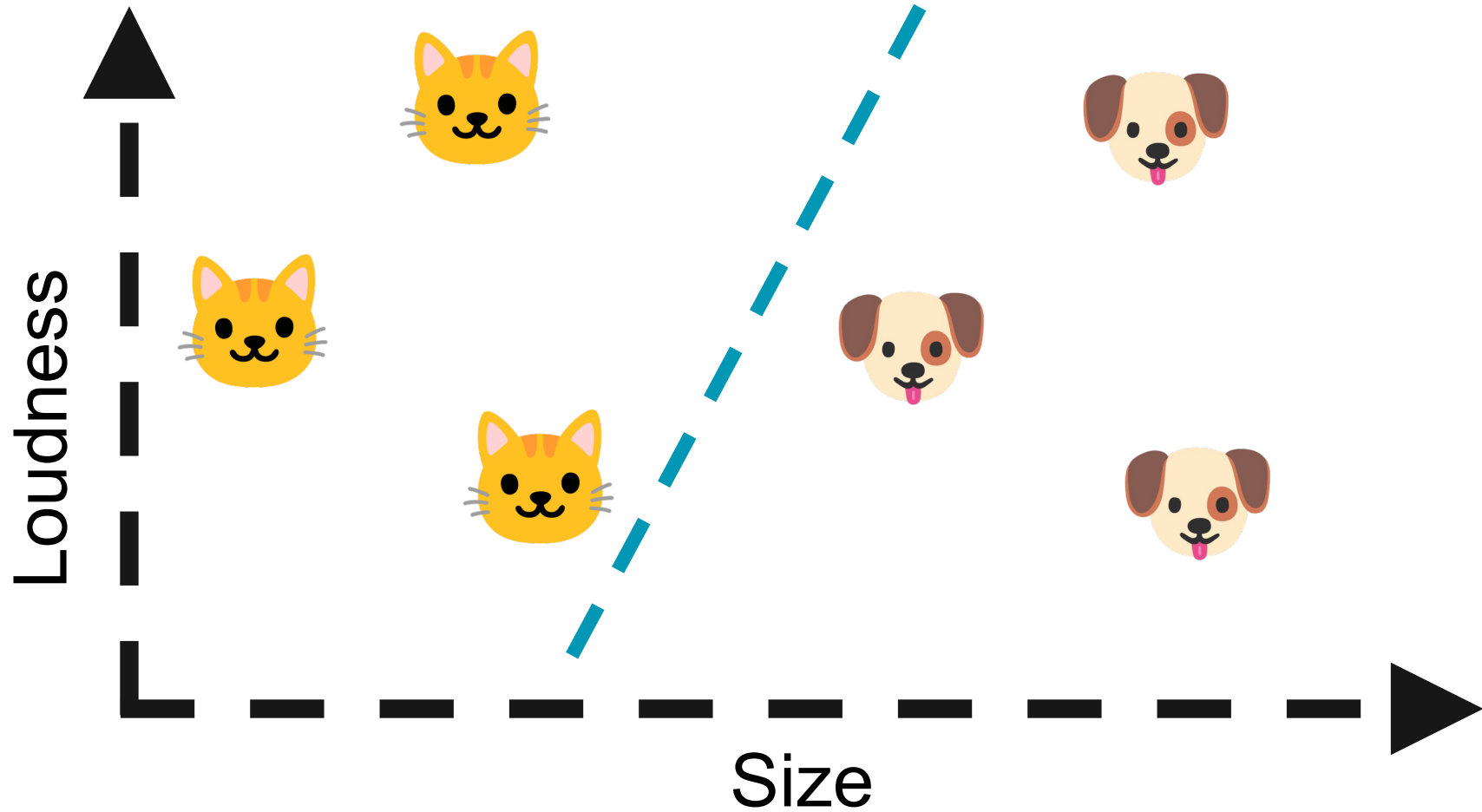
How AI Works

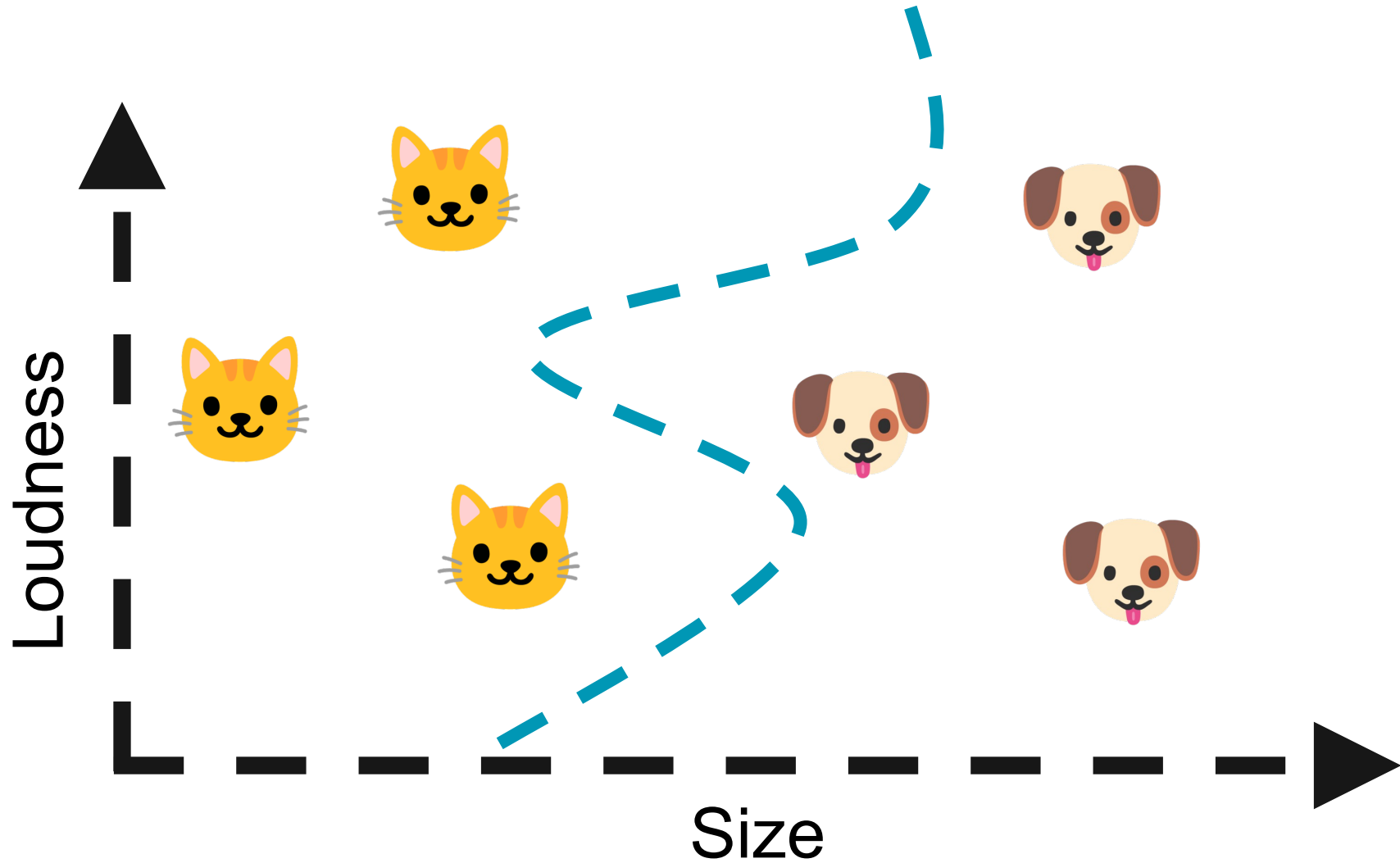
Many Different Ways...

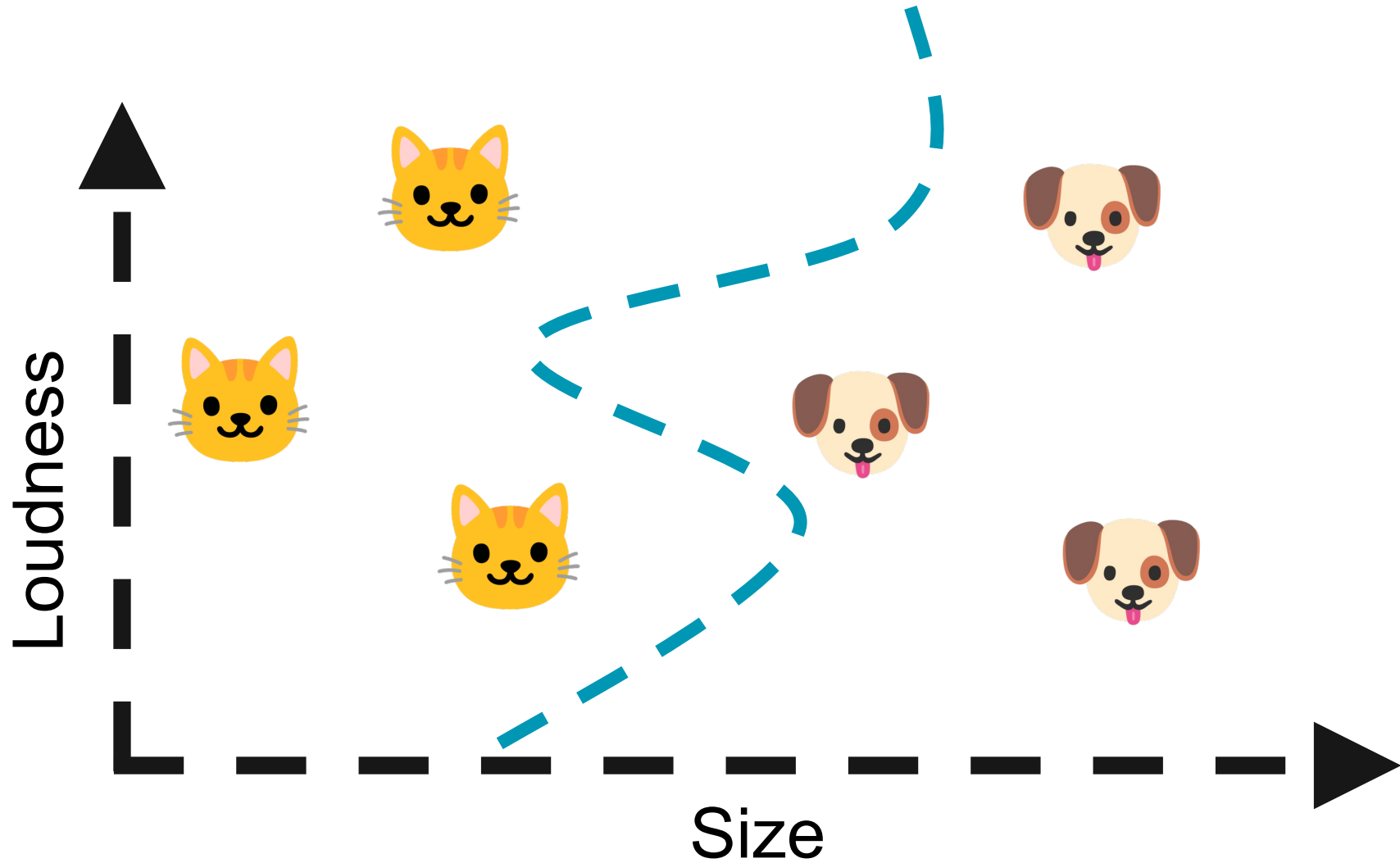
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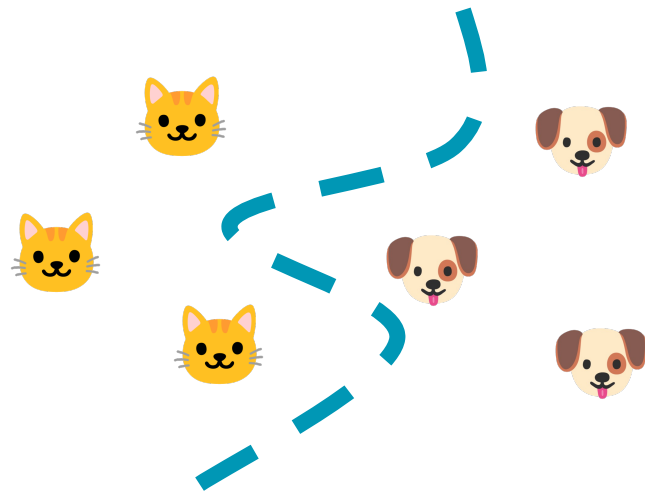
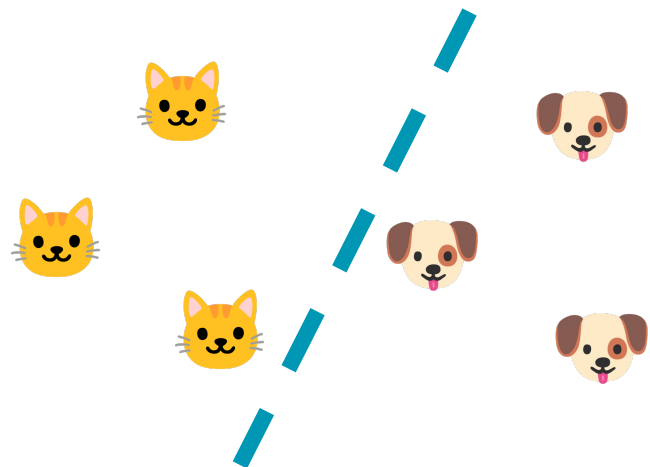


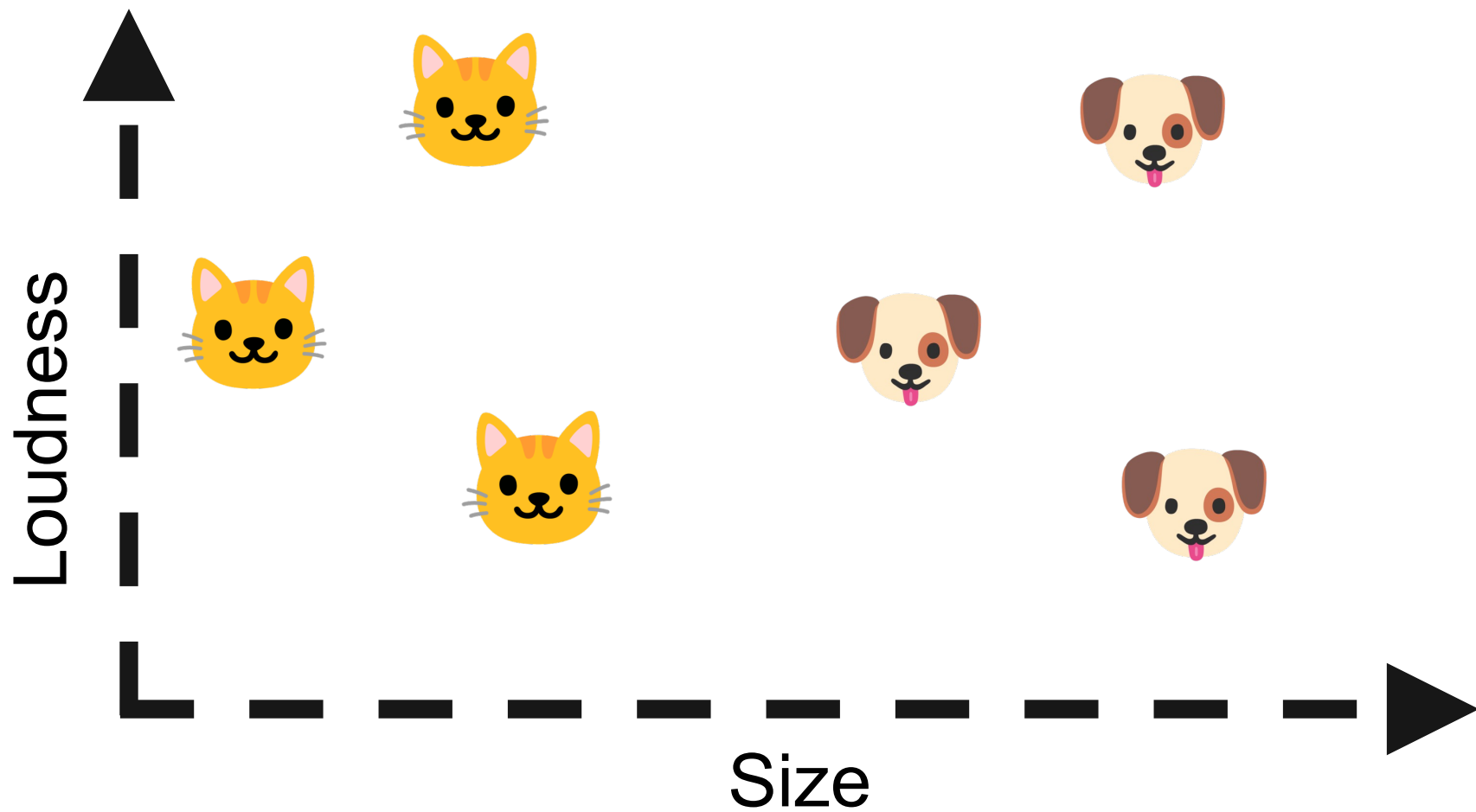


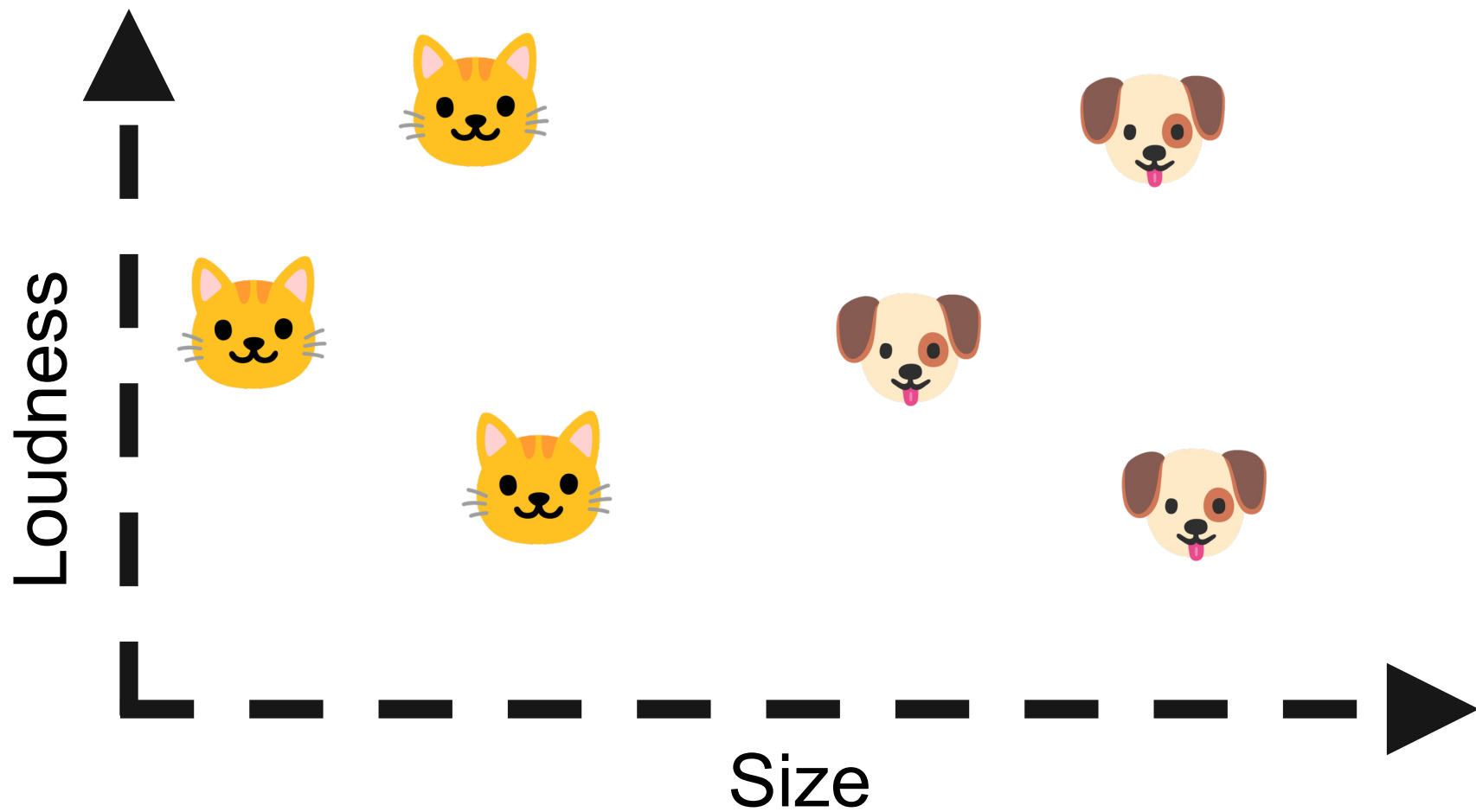


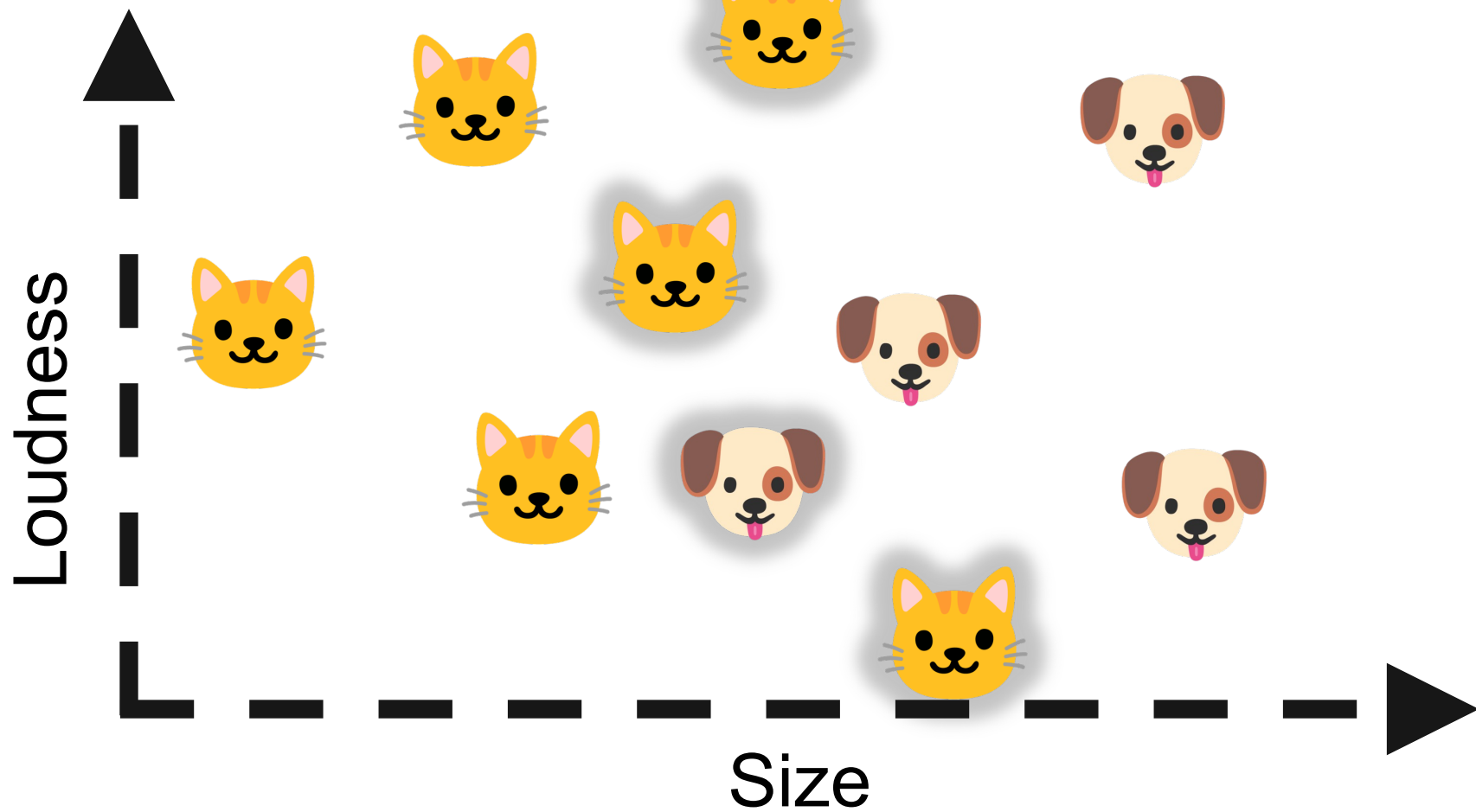


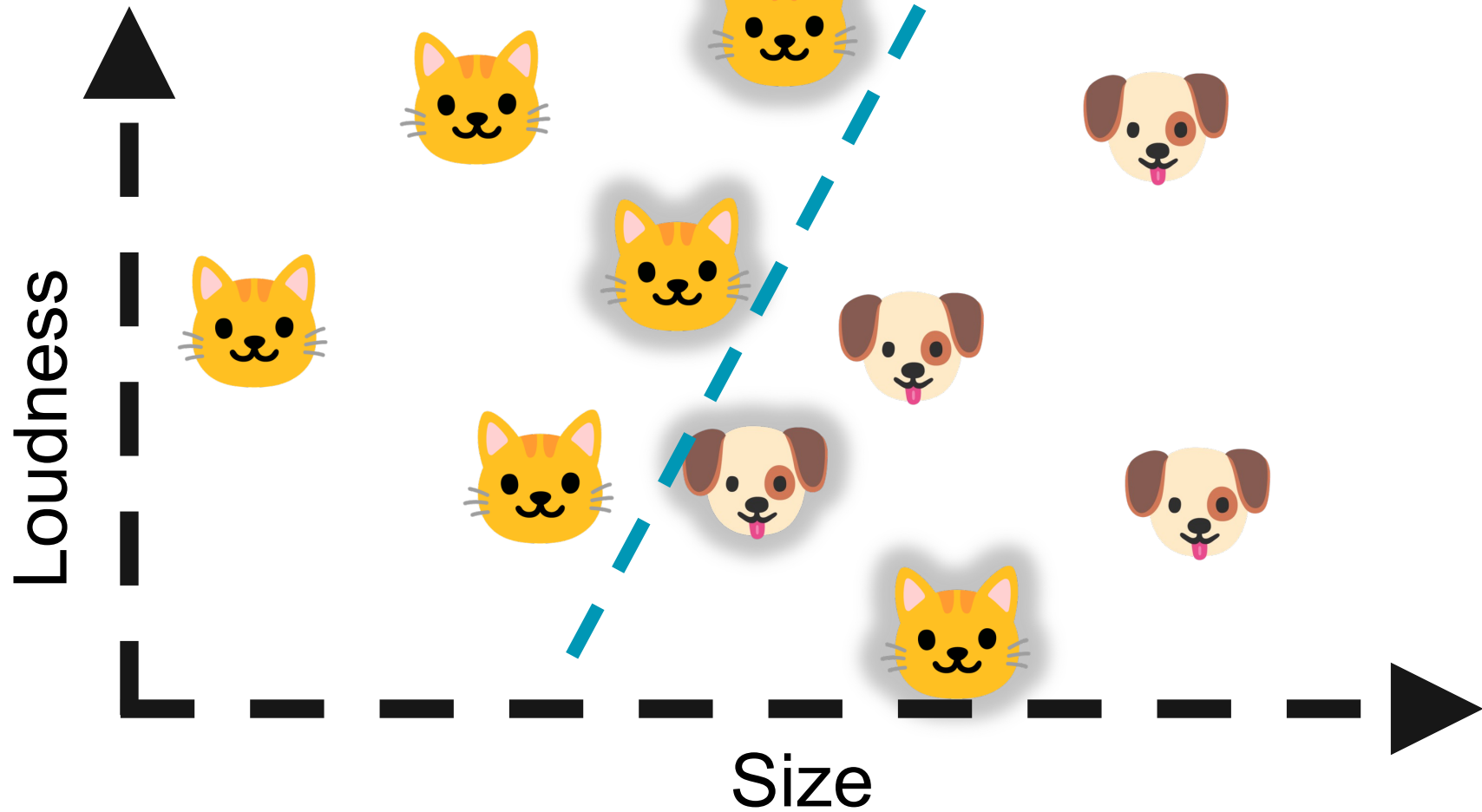


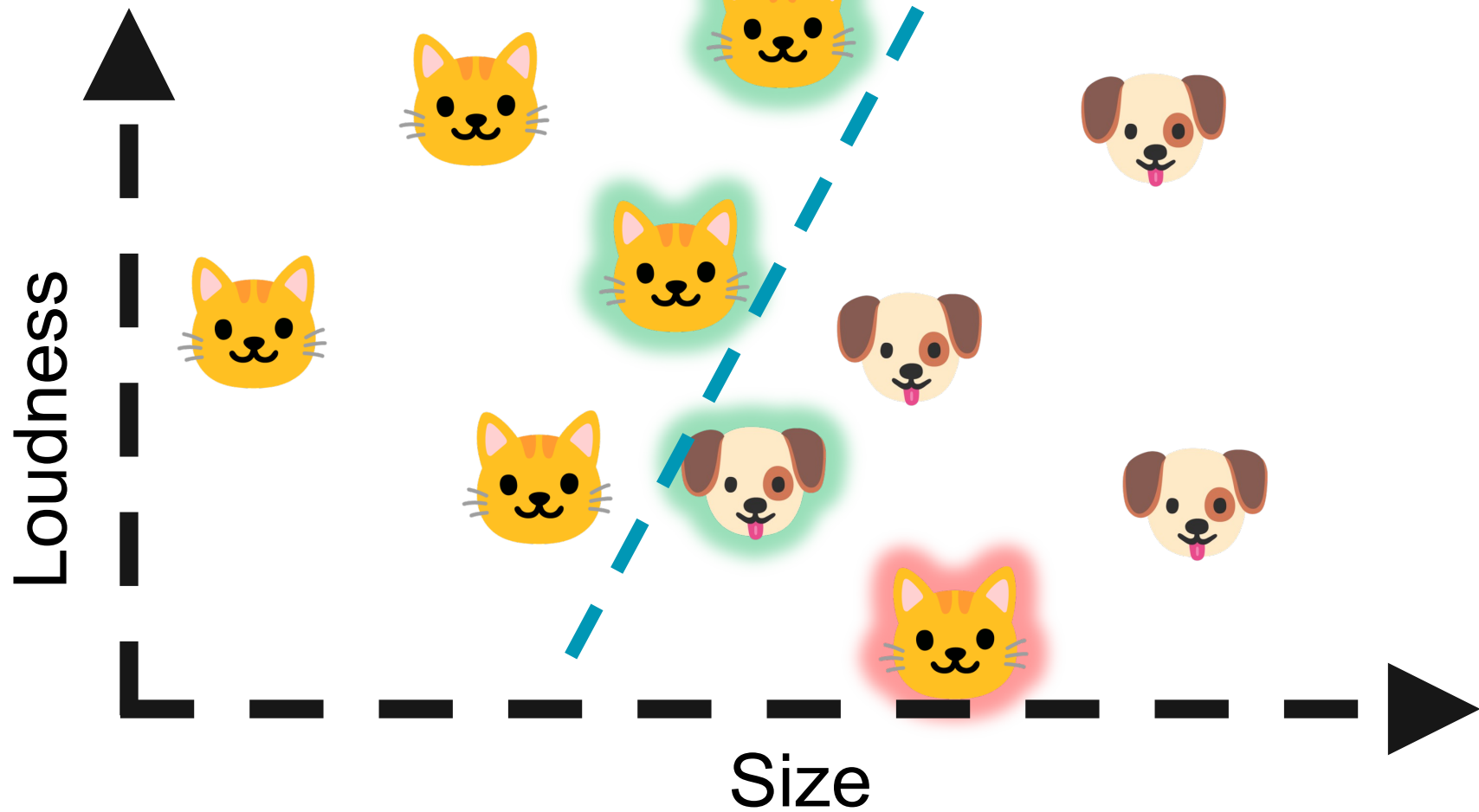


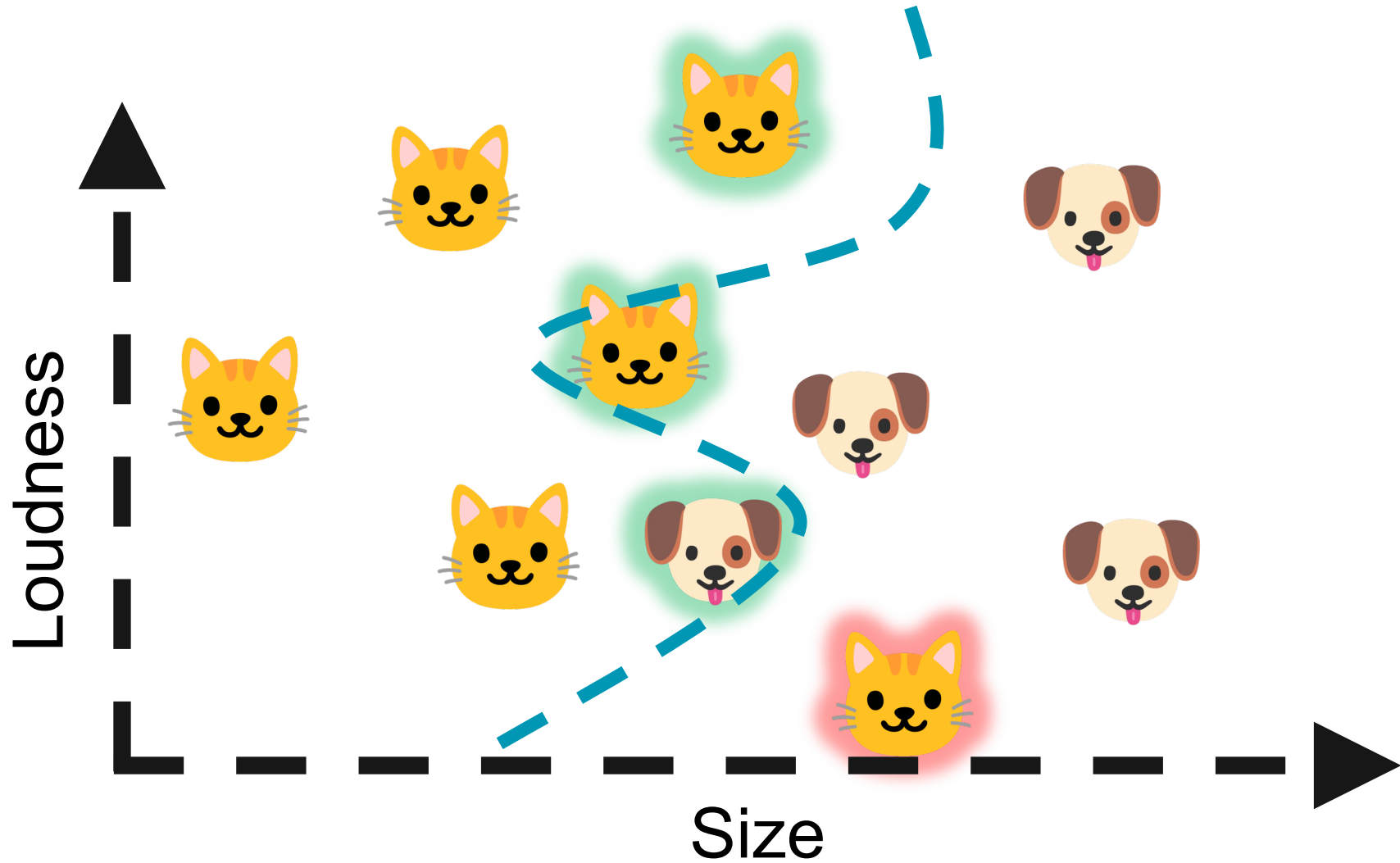


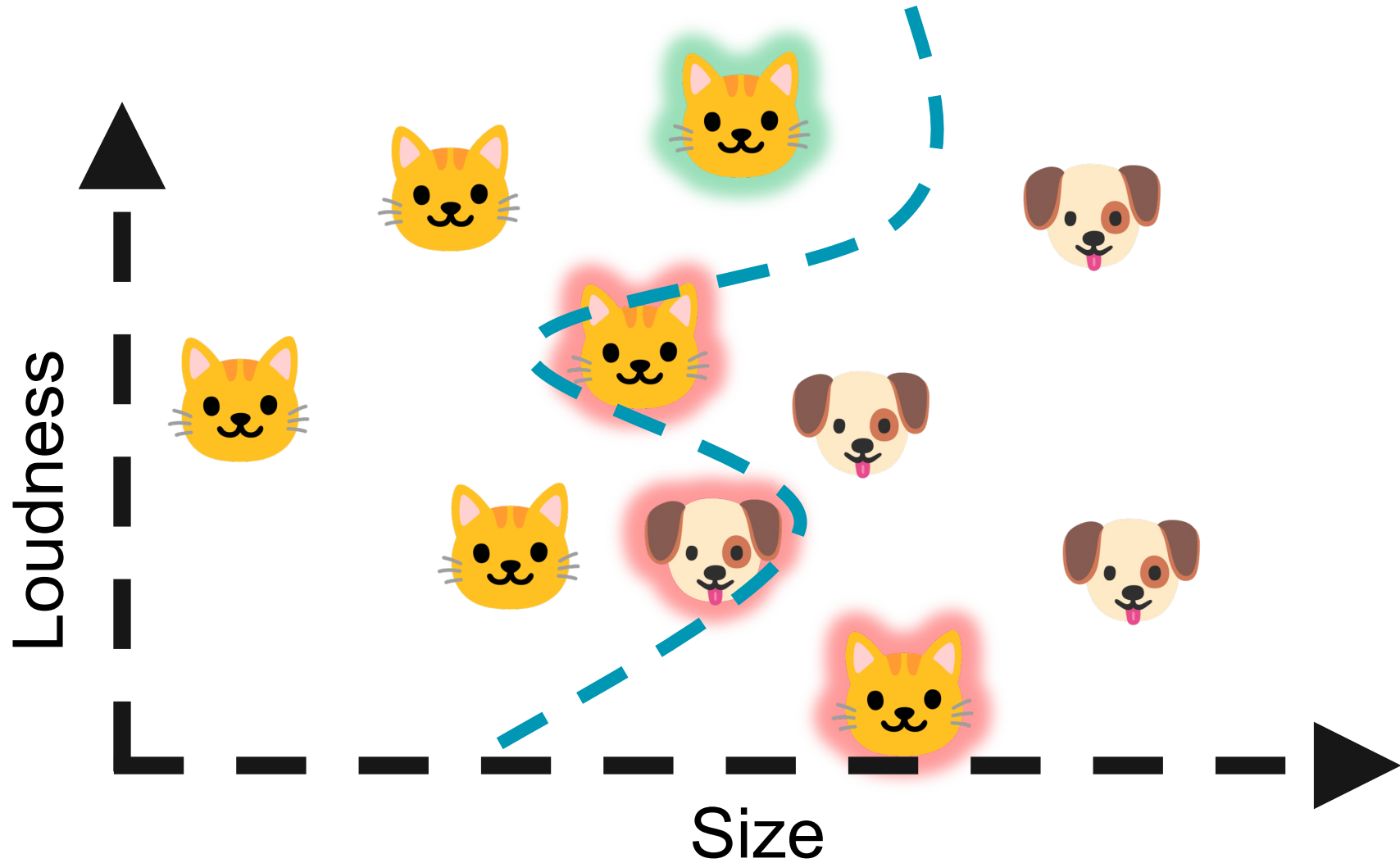


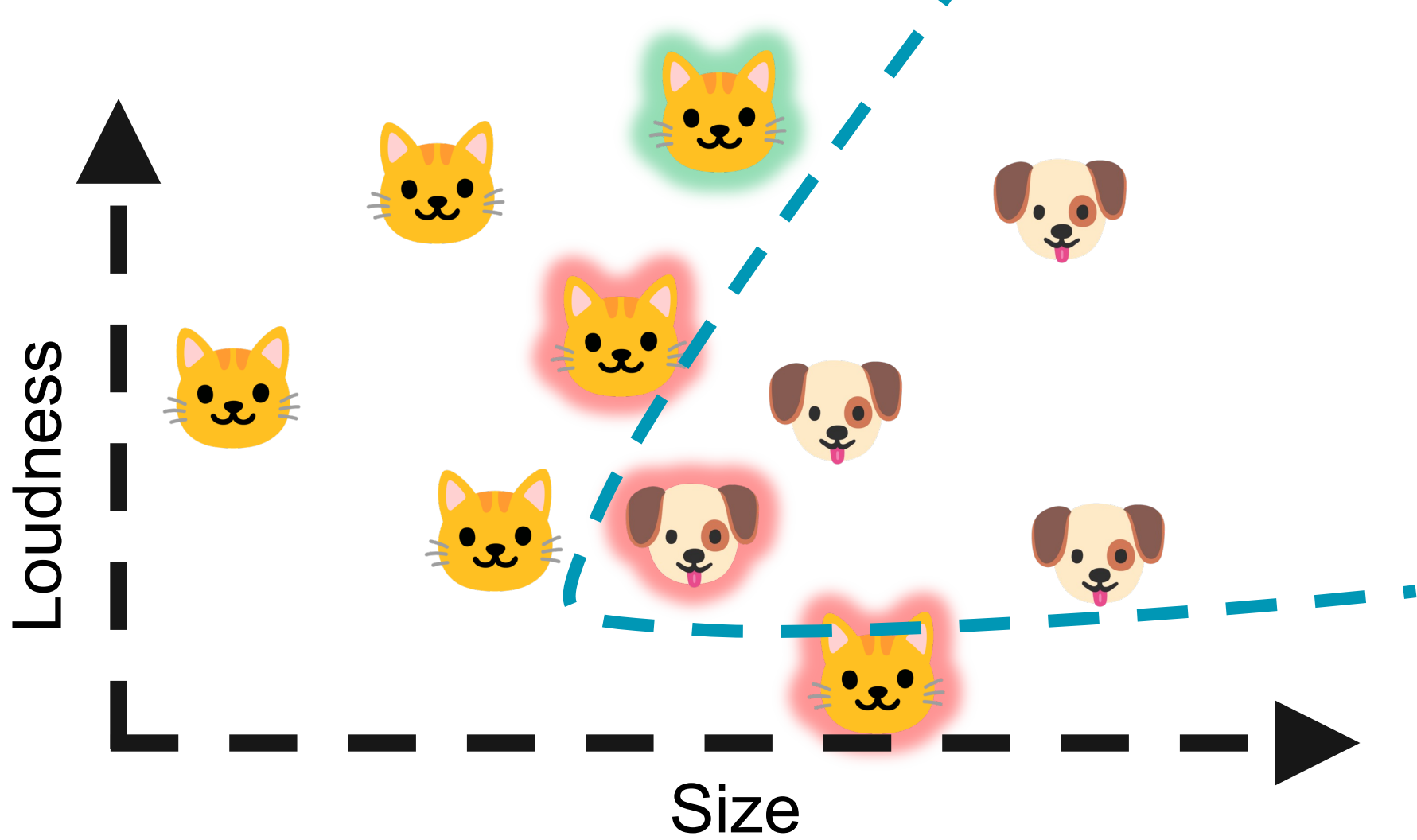


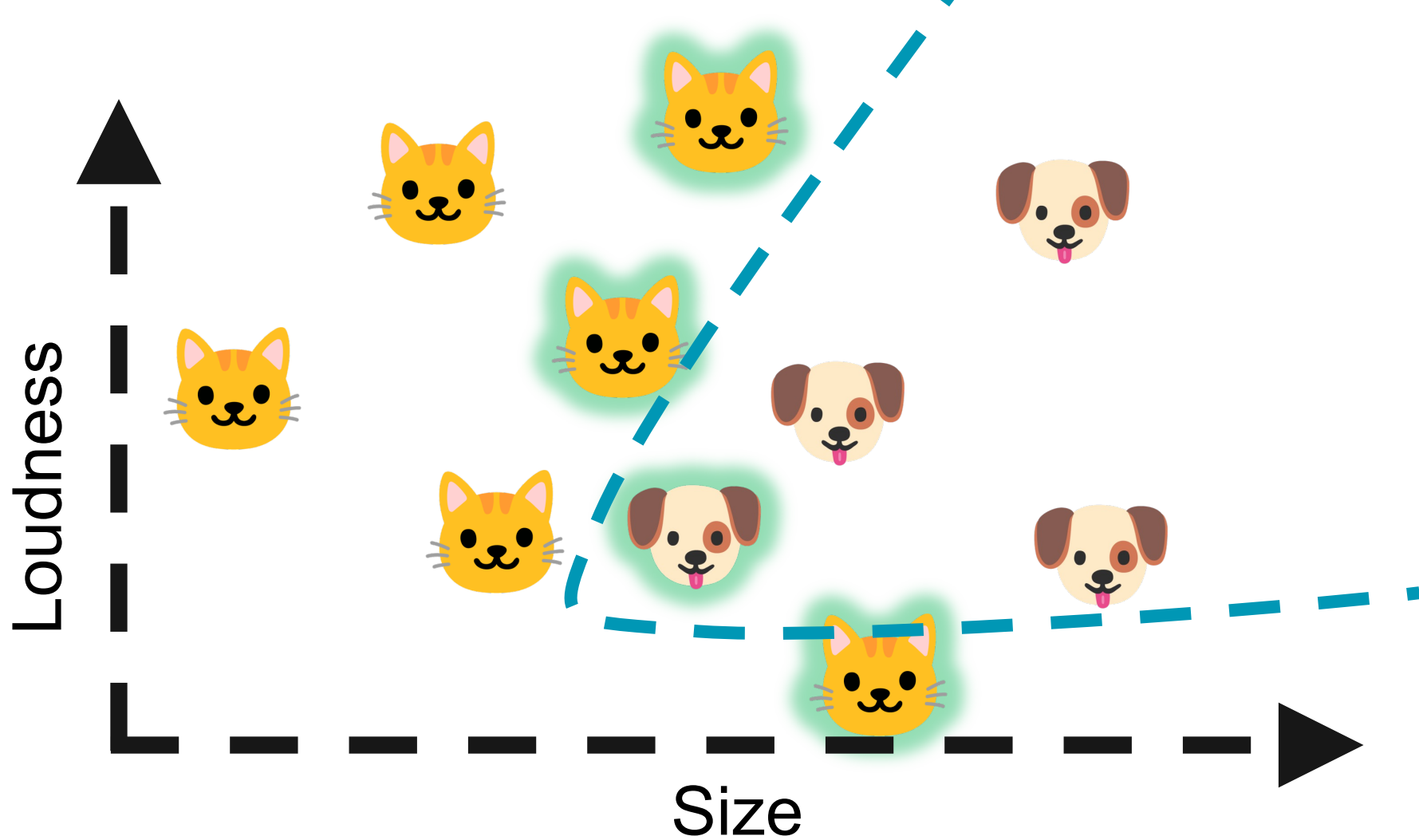








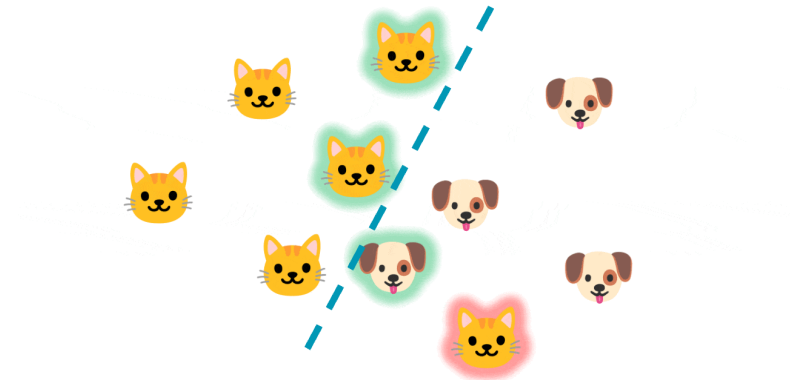




Where's the AI?



Where's the AI?

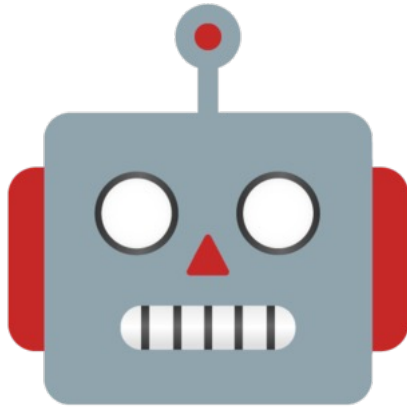


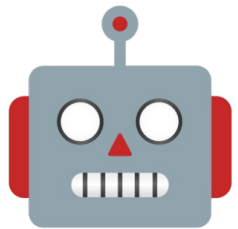


AI: Current & Future

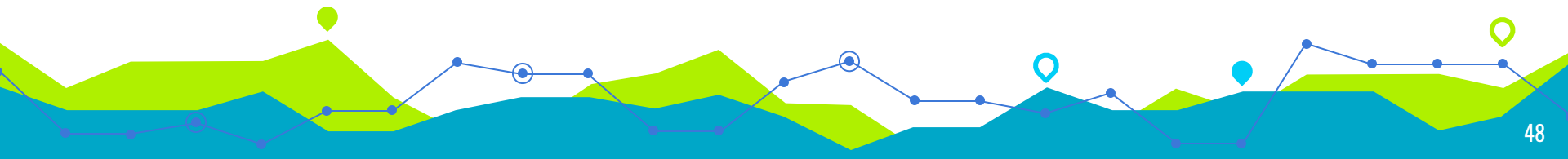
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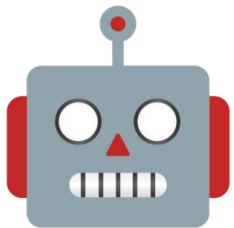
Current AI





Current AI



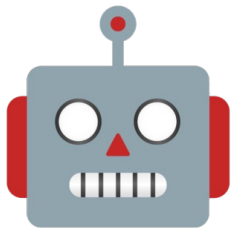


Current AI

Generating Writing: ChatGPT

Image Generation: Midjourney



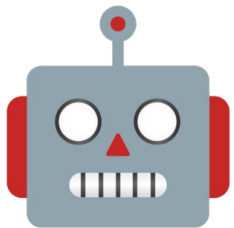


Current AI

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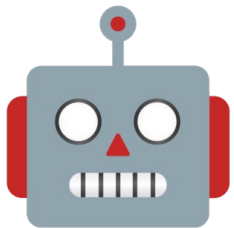
Current AI

Generating Writing: ChatGPT

Image Generation: Midjourney

Robotics (Self-Driving)





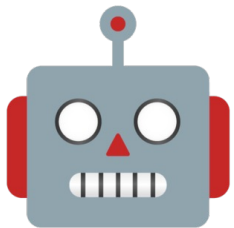
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Robotics (Self-Driving)





Current AI

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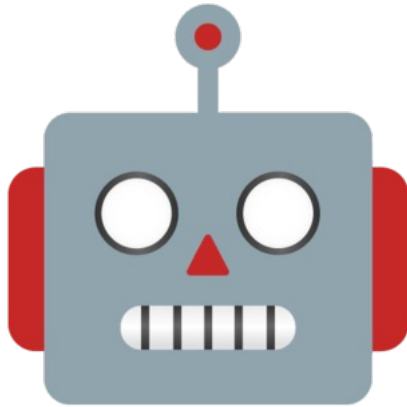
Robotics (Self-Driving)

Decision Making

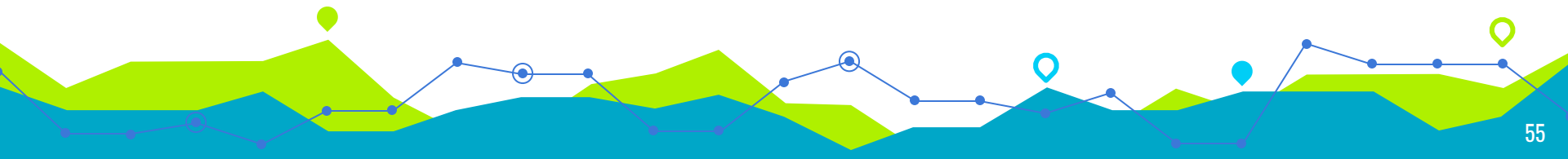
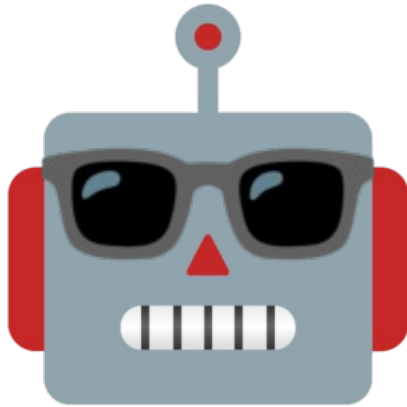
Science/Medical Research



Current AI



Future of AI?





Concerns About AI

5

Concerns About AI

Privacy

Jobs & Careers

Ethics in Its Usage

Who Has the Final Say

Understanding AI

Emerging Technology



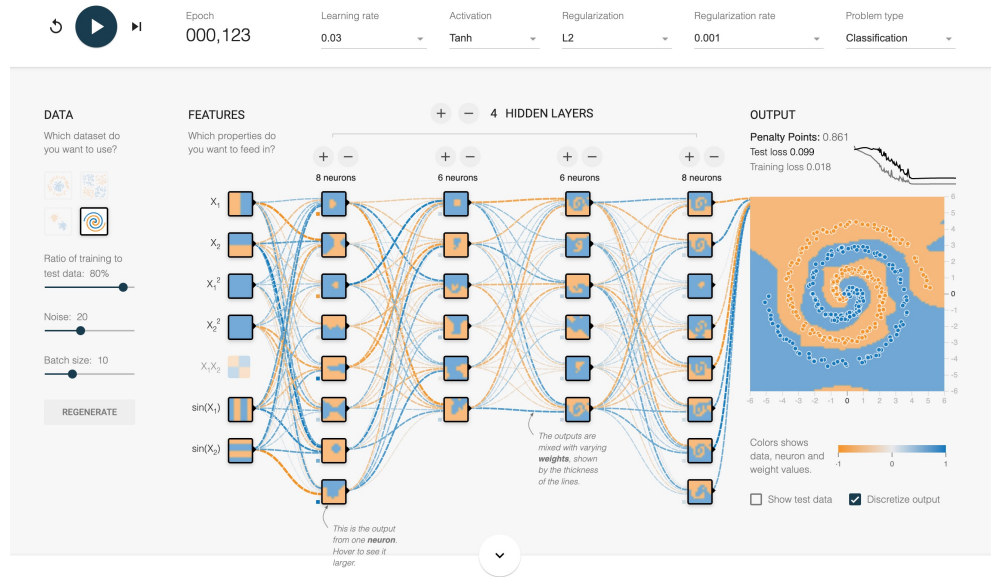


TensorFlow Playground Activity

6

TensorFlow Playground

Playing with Real AI





Questions & Answers Time

AMA

7

THANKS!

@MrGeislinger / mrgeislinger.com



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