Introducing Data Science & Al

Victor Geislinger



"So Who Are You?"

Who Am !?

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 Al Especially With Natural Language

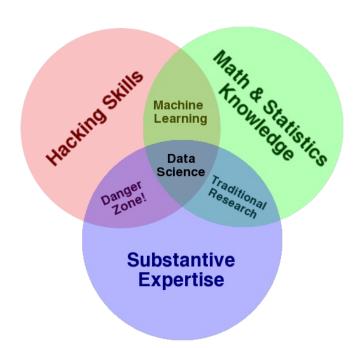


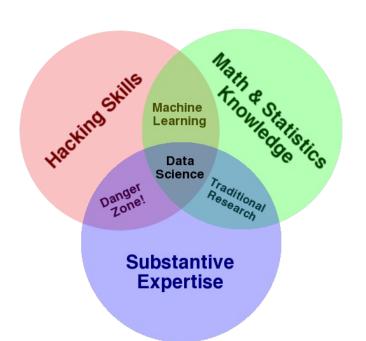


What is Data Science & AI?

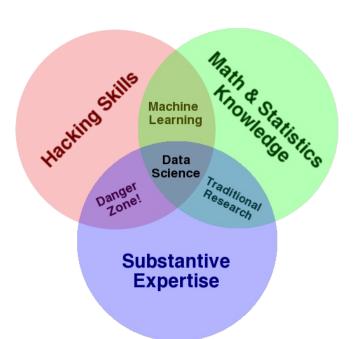
You might already be using it

Data Science



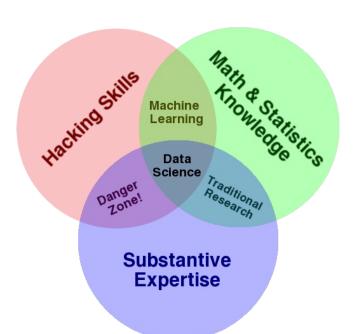


Various Subjects (Cross-Disciplinary)



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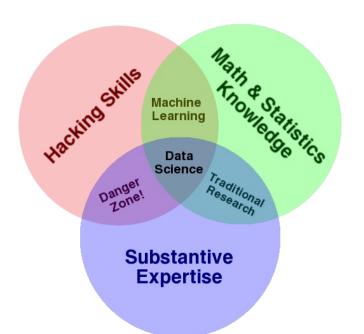
Computers: Doing More Faster



Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

Connecting Math to the Real World

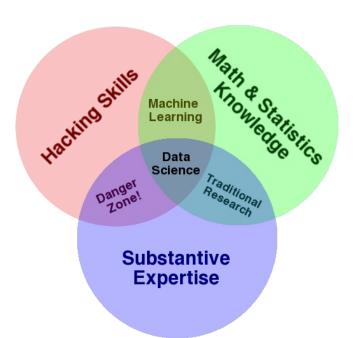


Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

Connecting Math to the Real World

Communicating Ideas



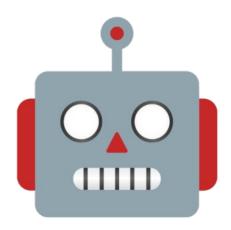
Various Subjects (Cross-Disciplinary)

Computers: Doing More Faster

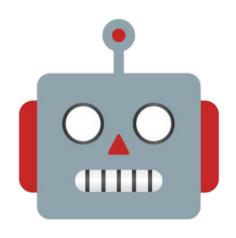
Connecting Math to the Real World

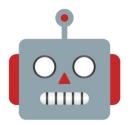
Communicating Ideas

Artificial Intelligence (AI)



Past Information ("Data") to Make "Better" Decisions



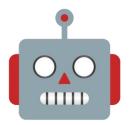


Past Information ("Data") to Make "Better" Decisions

?

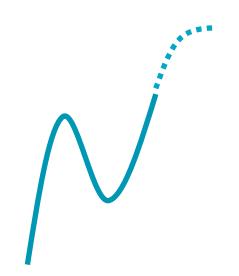
Predicting

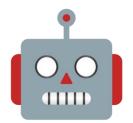




Past Information ("Data") to Make "Better" Decisions

Predicting



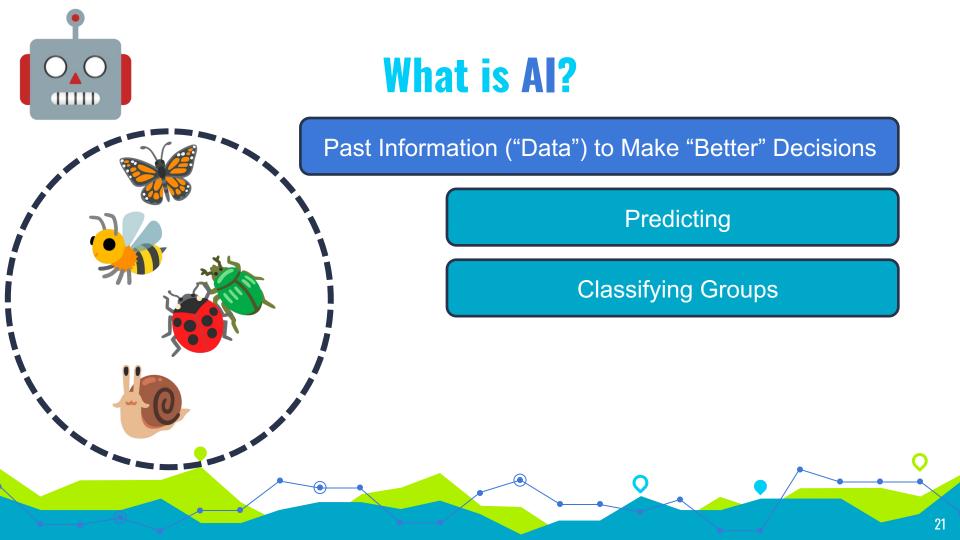


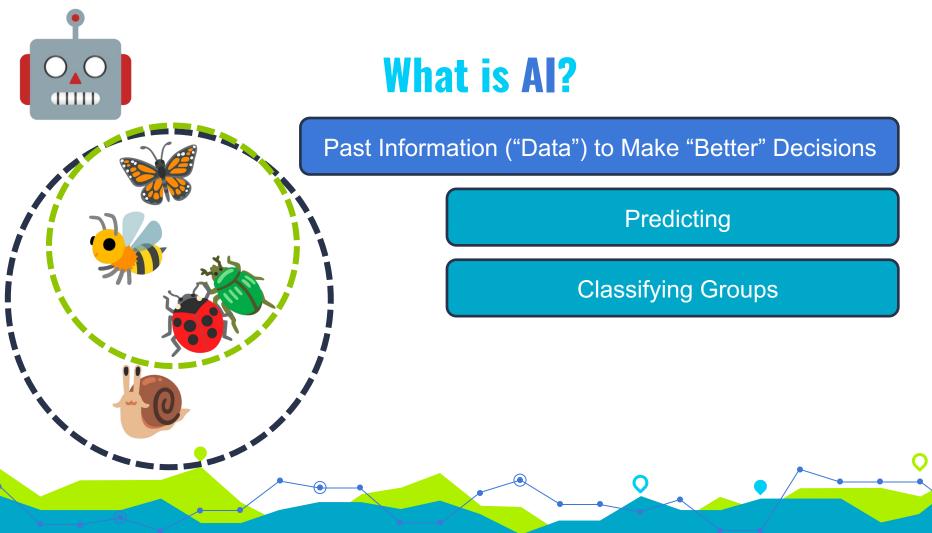
Past Information ("Data") to Make "Better" Decisions

Predicting

Classifying Groups





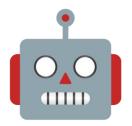




Past Information ("Data") to Make "Better" Decisions

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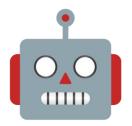
Past Information ("Data") to Make "Better" Decisions



Predicting

Classifying Groups

"Reinforcement Learning"



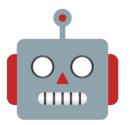
Past Information ("Data") to Make "Better" Decisions



Predicting

Classifying Groups

"Reinforcement Learning"



Past Information ("Data") to Make "Better" Decisions

Predicting

Classifying Groups

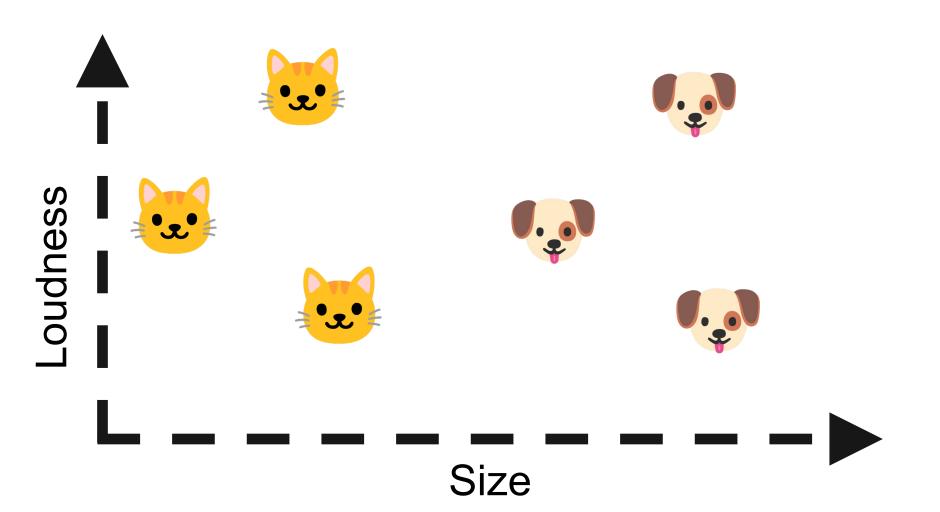
"Reinforcement Learning"

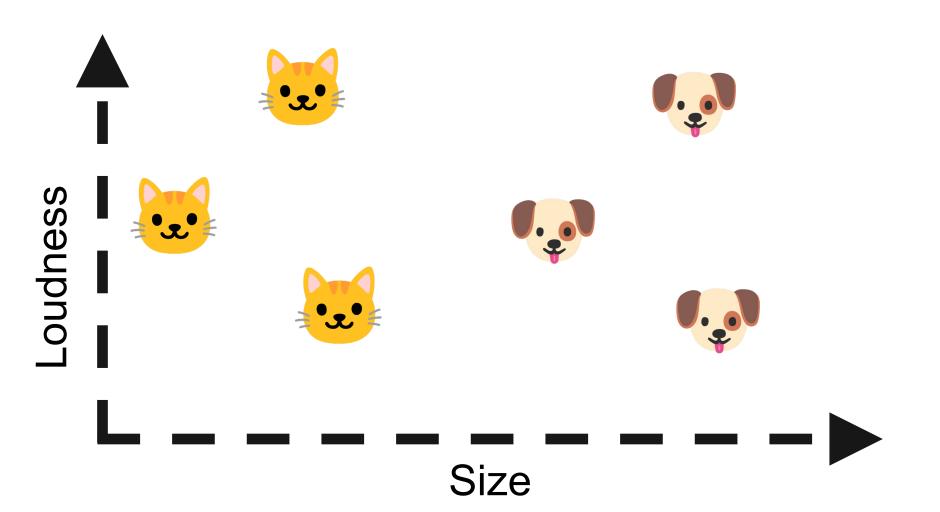
Generative

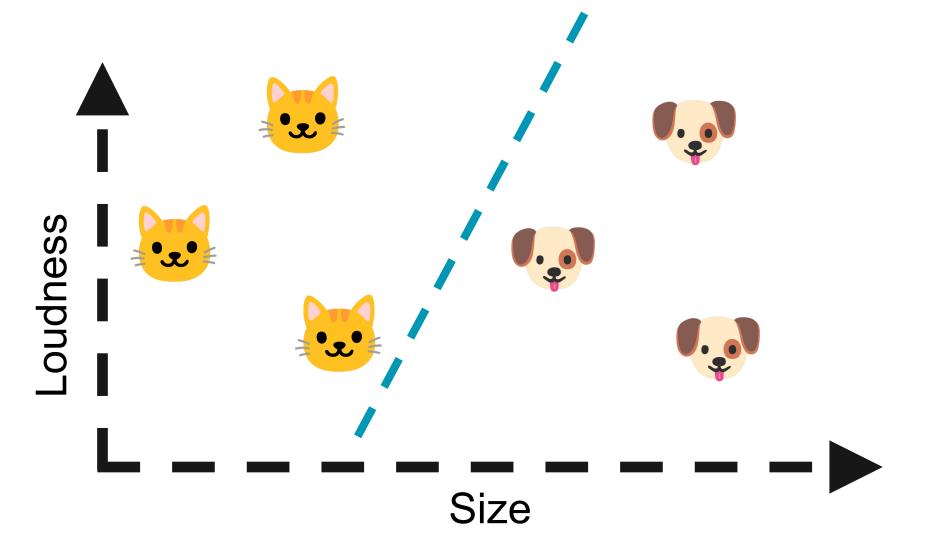


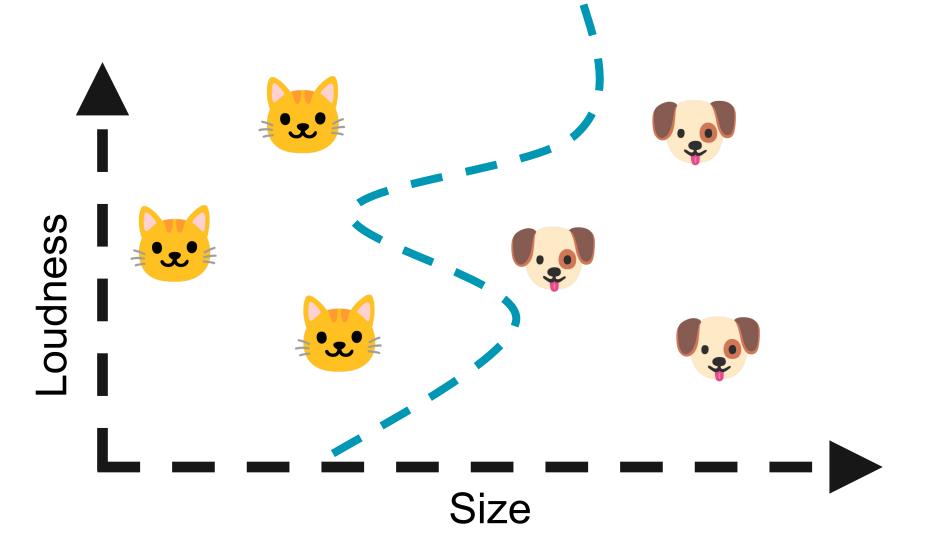
How AI Works

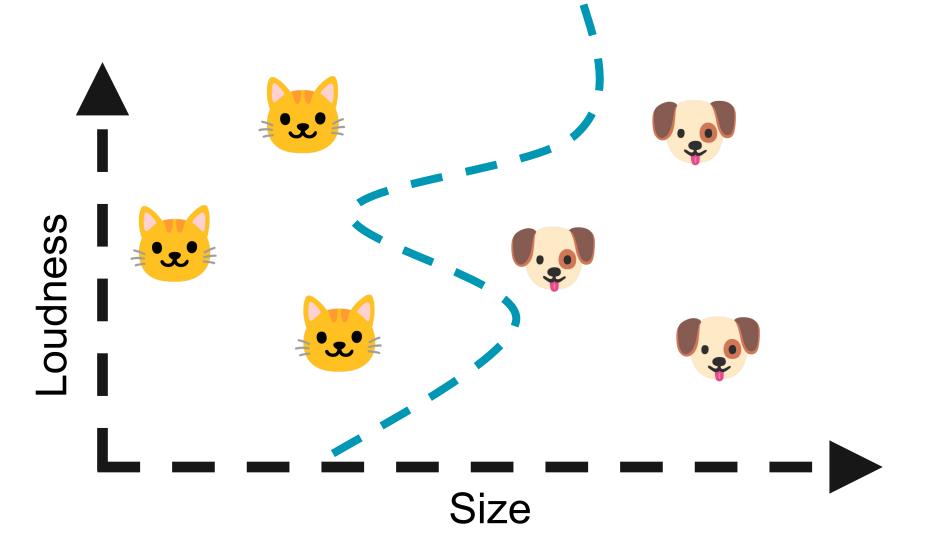
Many Different Ways...

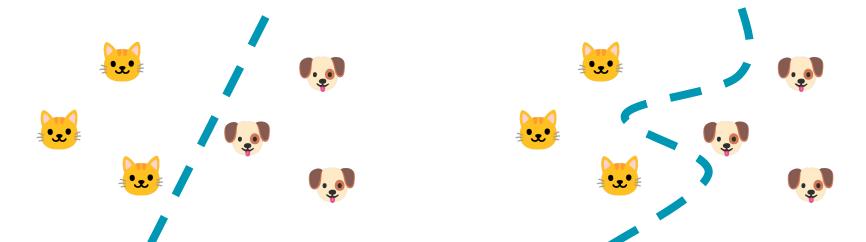


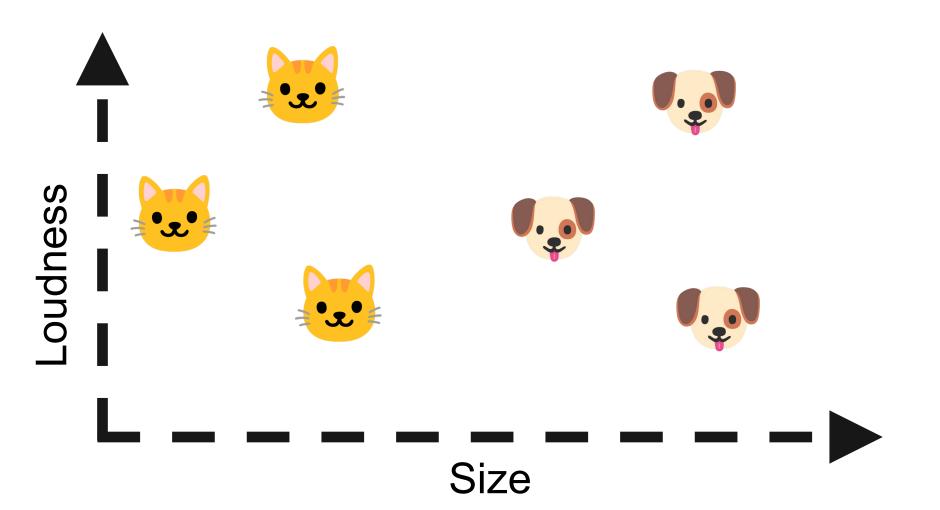


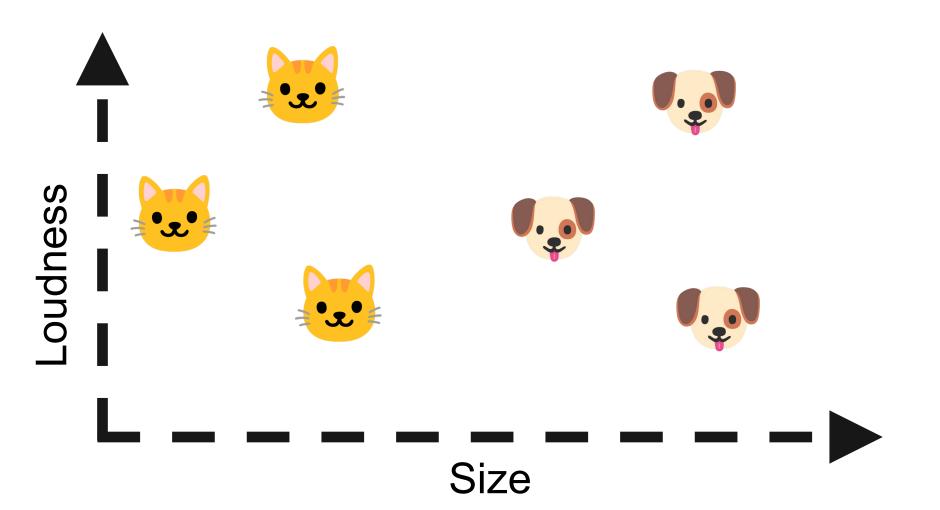


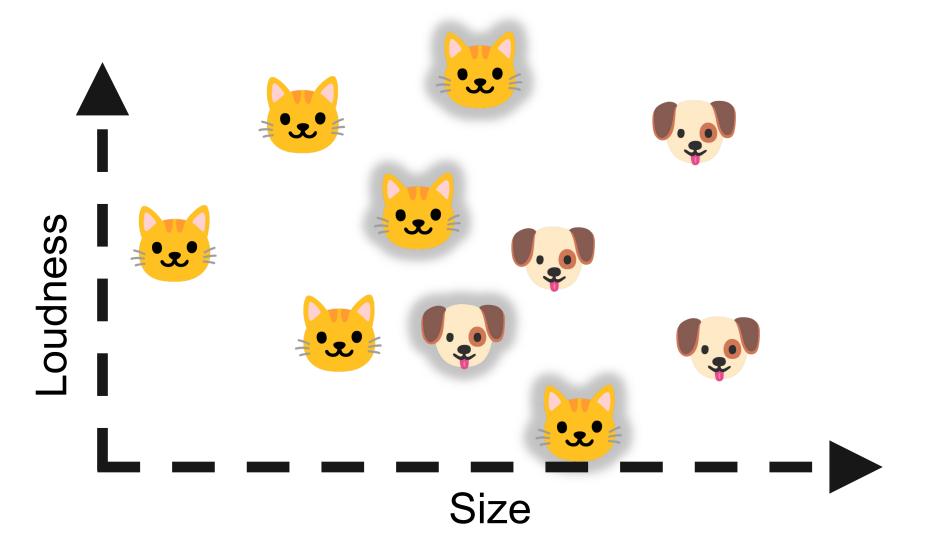


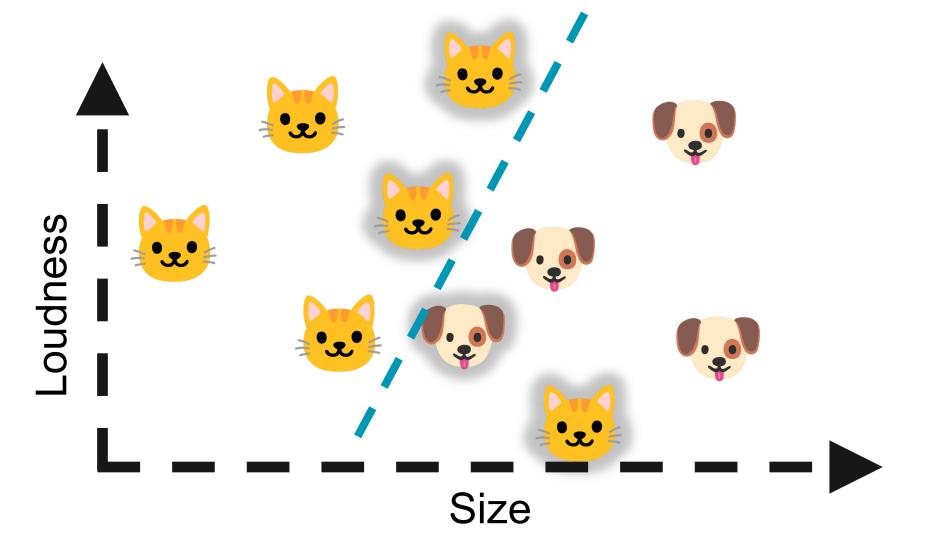


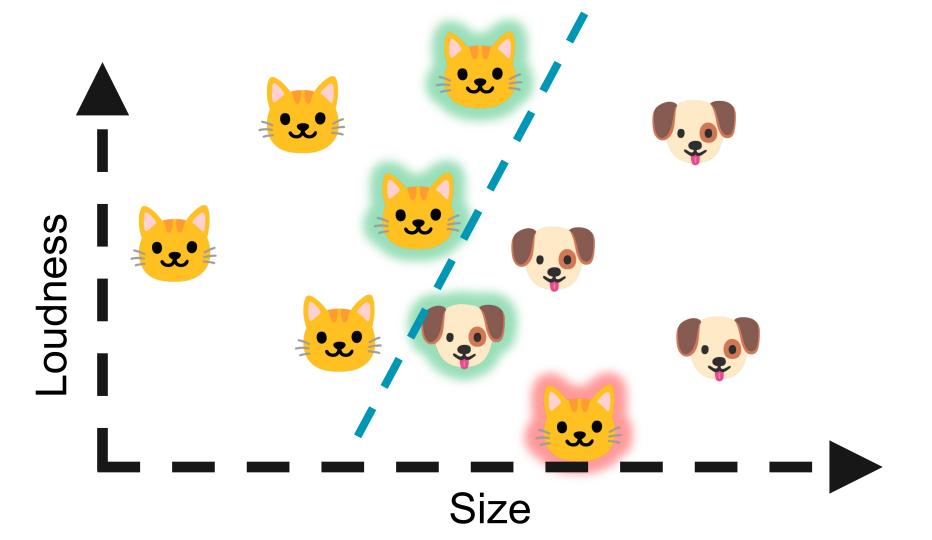


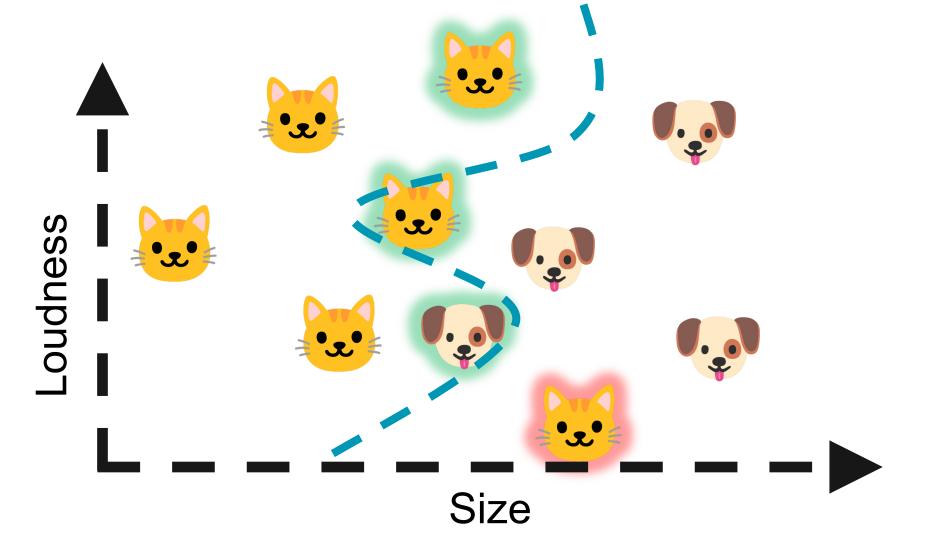


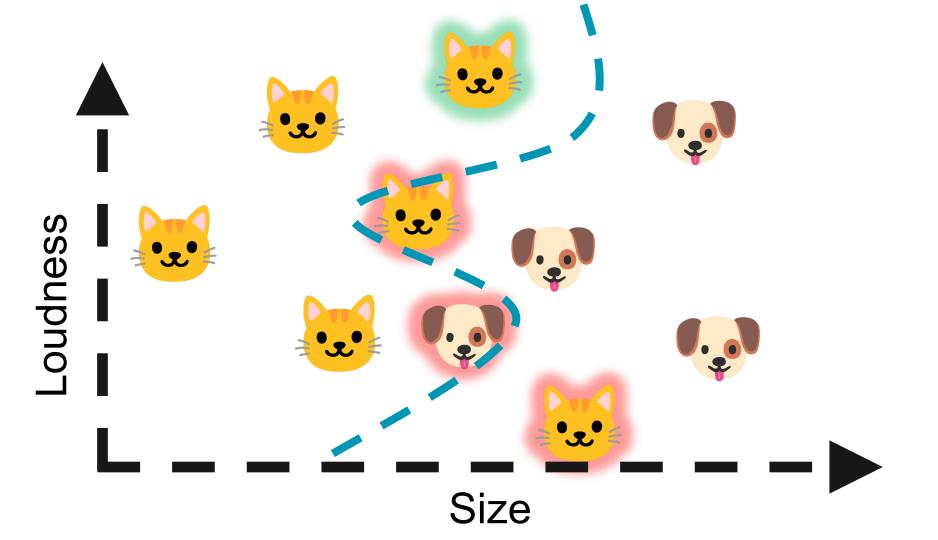


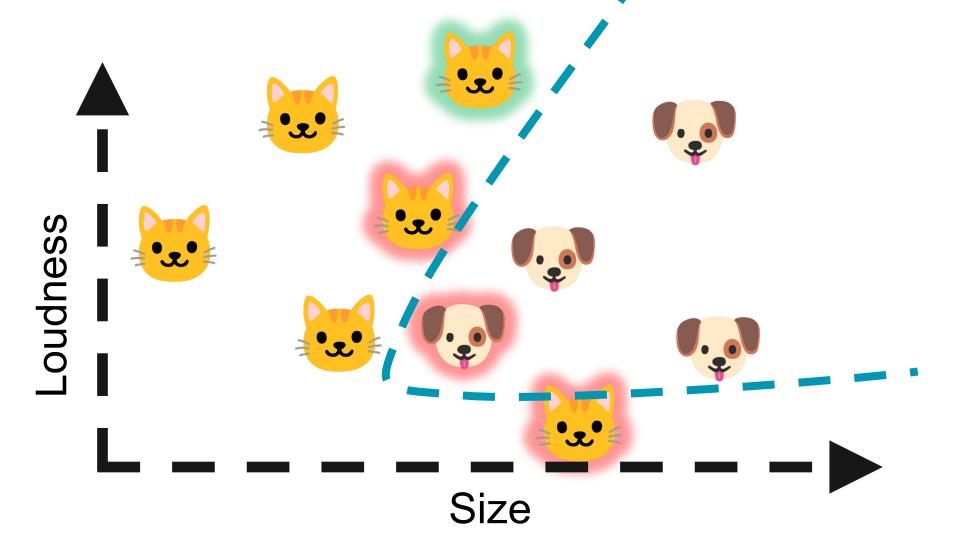


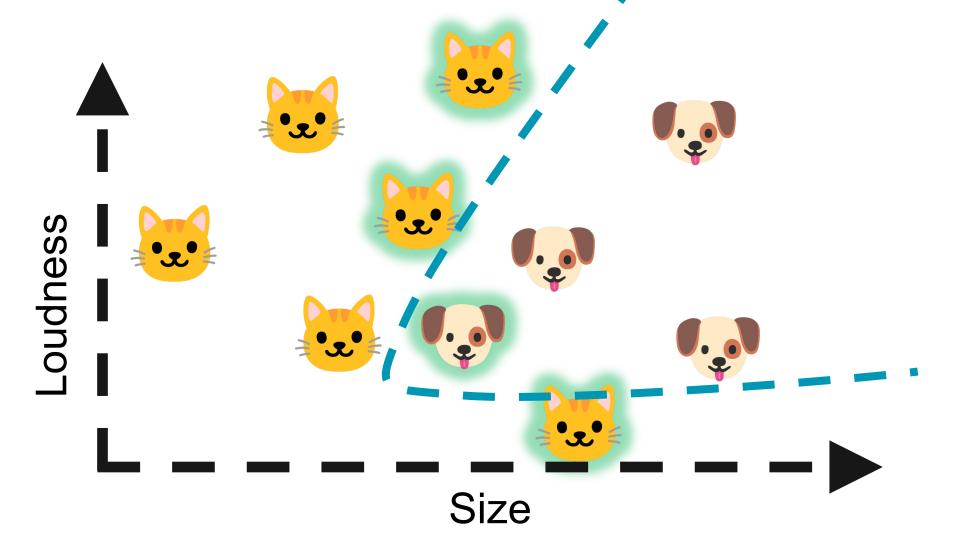






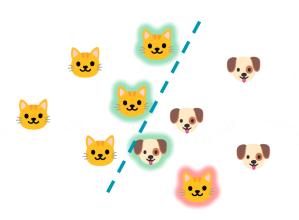






Where's the AI?

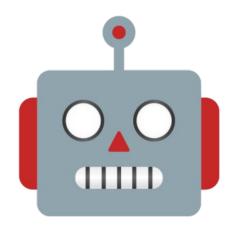
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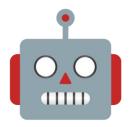




AI: Current & Future

Current Al





Current Al

Decision Making

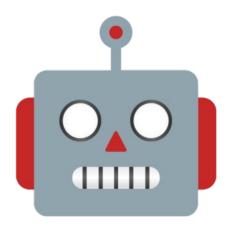
Generating Writing: ChatGPT

Robotics (Self-Driving)

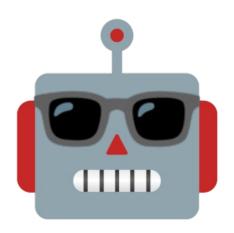
Image Generation: Midjourney

Science/Medical Research

Current Al



Future of AI?





Concerns About Al

Concerns About Al

Privacy

Jobs & Careers

Ethics in Its Usage

Who Has the Final Say

Emerging Technology

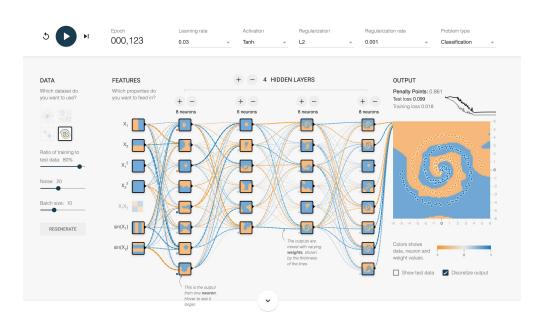




TensorFlow Playground Activity



TensorFlow Playground Playing with Real Al





Questions & Answers Time AMA

THANKS!

@MrGeislinger / mrgeislinger.com











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