THE TECHNICALITIES AND WORKINGS OF AI

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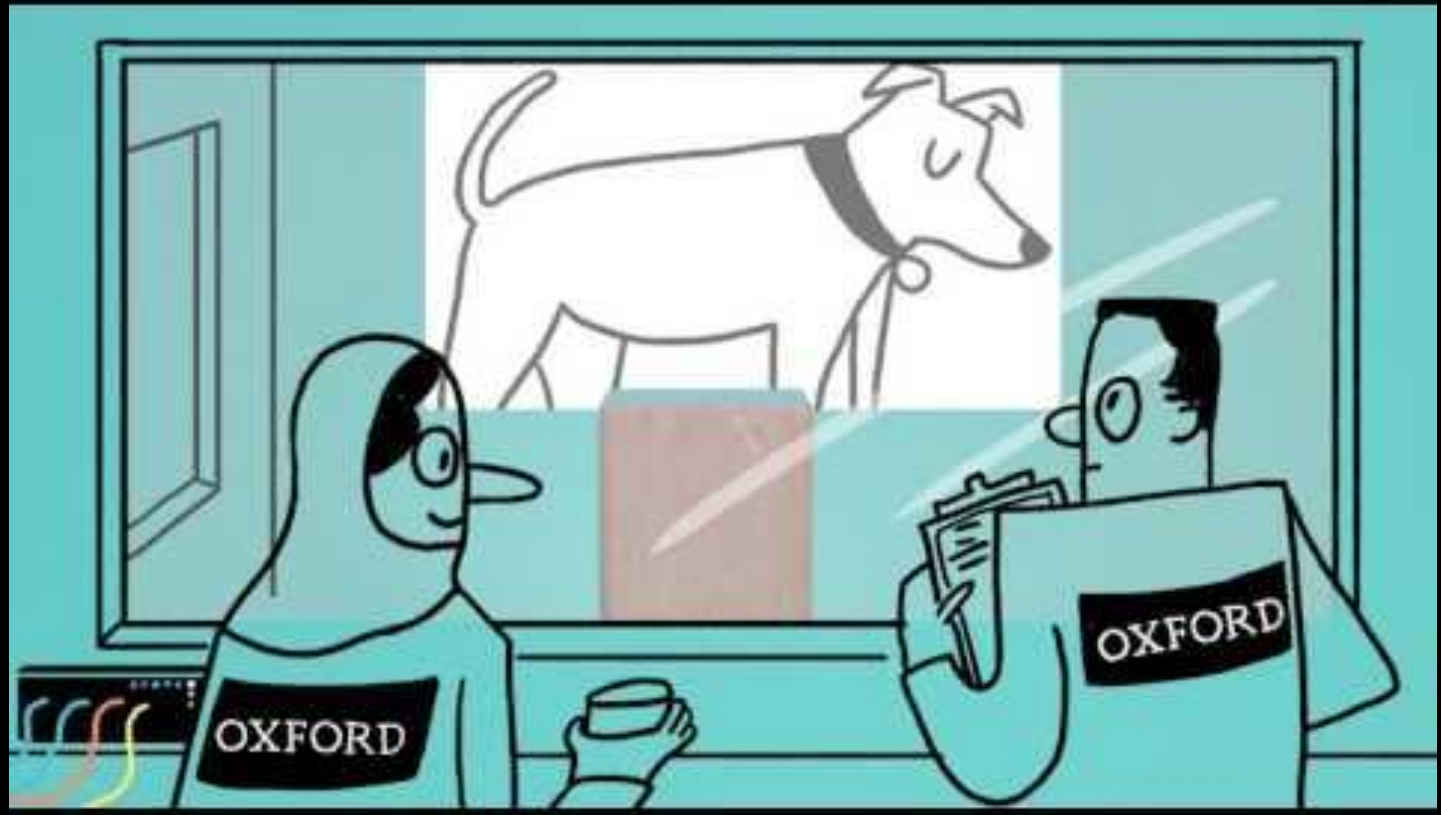
Google AI

Crowdsource
By Google

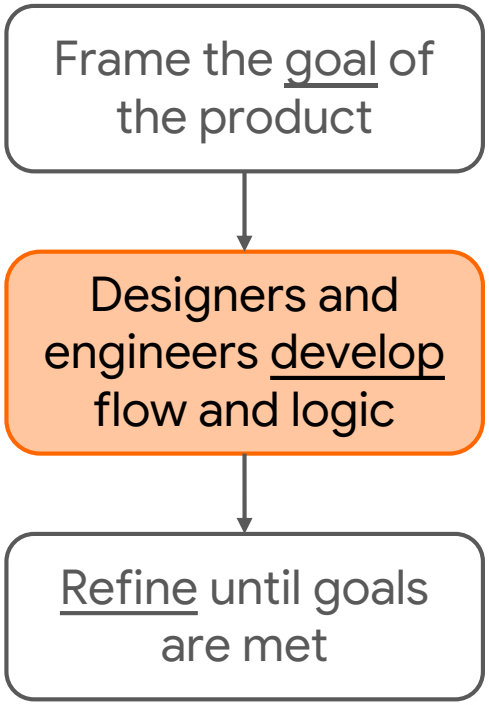
Google AI



Here’s another game!

Quickdraw

Normal: Rule-based




```
if object.height > 10:
  do x
if object.color is blue:
  do y
if object.numberOfLegs > 2:
  do z
...
```

AI: Machine Learning

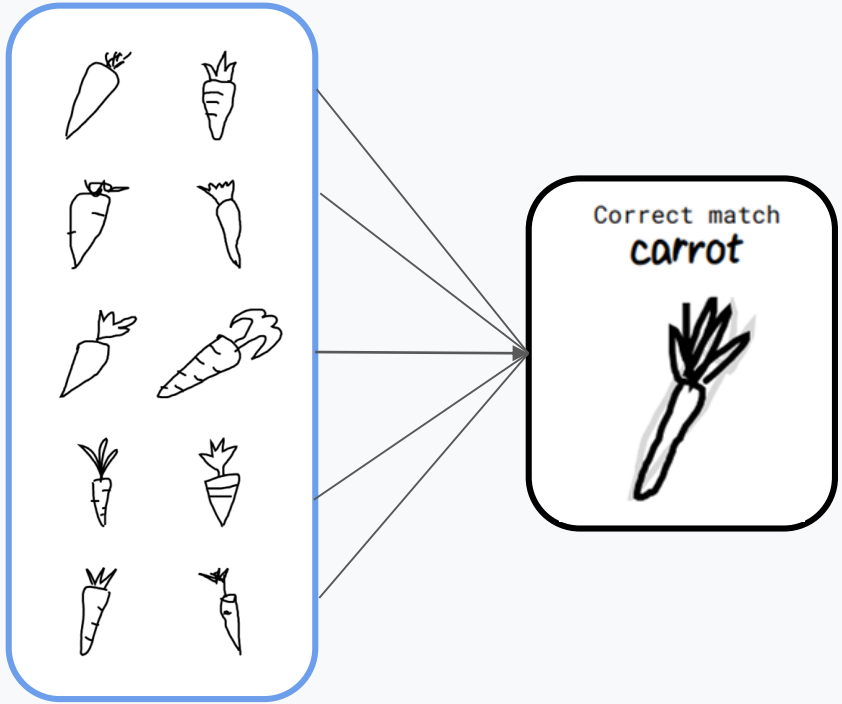
Frame the goal of the product

↓

Train a model using examples

↓

Refine until goals are met



Which Approach to Use?

Alphabetising a list of song titles

Rules-based

Machine Learning

Which Approach to Use?

Ranking Web Search Results

Rules-based

Machine Learning

Which Approach to Use?

Predicting Housing Prices based on Location

Rules-based

Machine Learning

Which Approach to Use?

Processing online payments

Rules-based

Machine Learning

Which Approach to Use?

Classifying an object in a photo

Rules-based

Machine Learning

Recap

Rule-based Approach

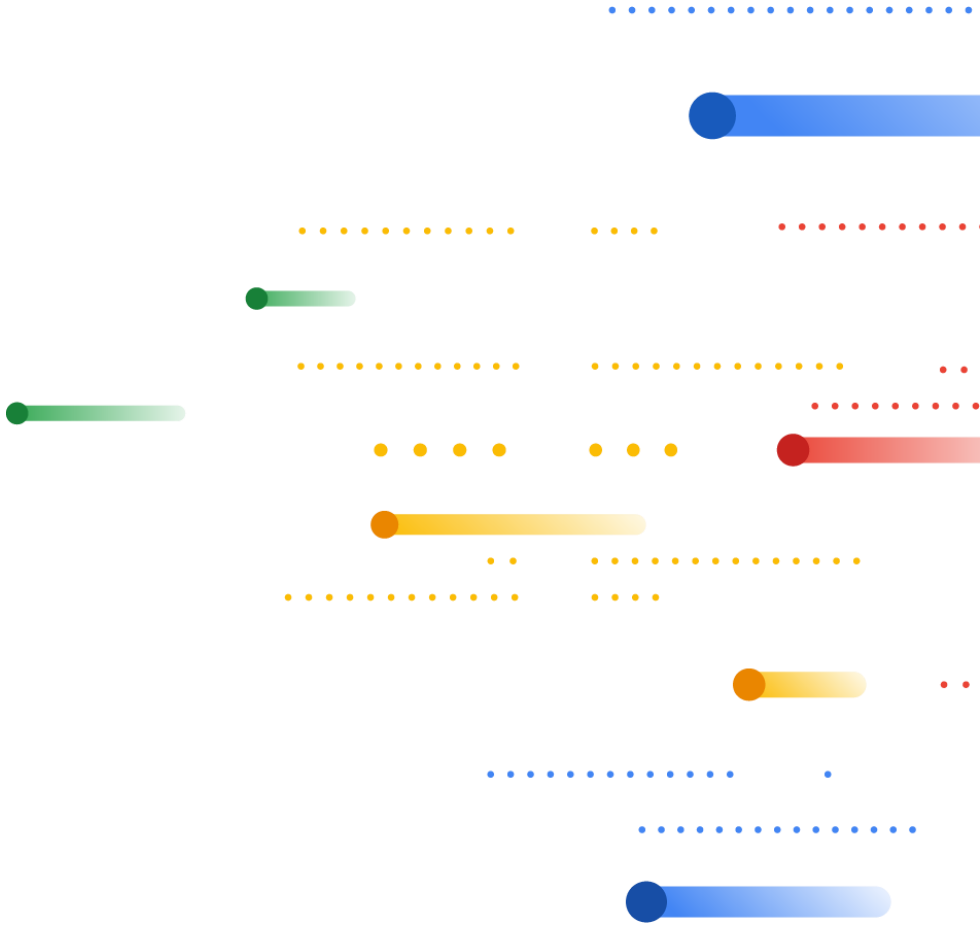
- Rules are defined
- Improvements come from algorithms and network

Machine Learning

- Learns patterns from data
- Improvements may from additional data

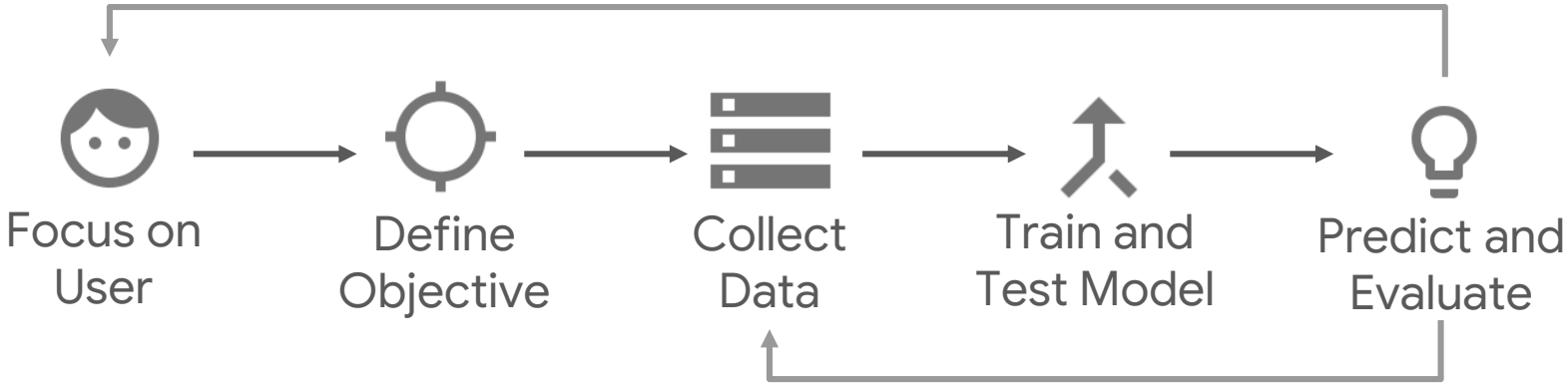
Each has its benefits

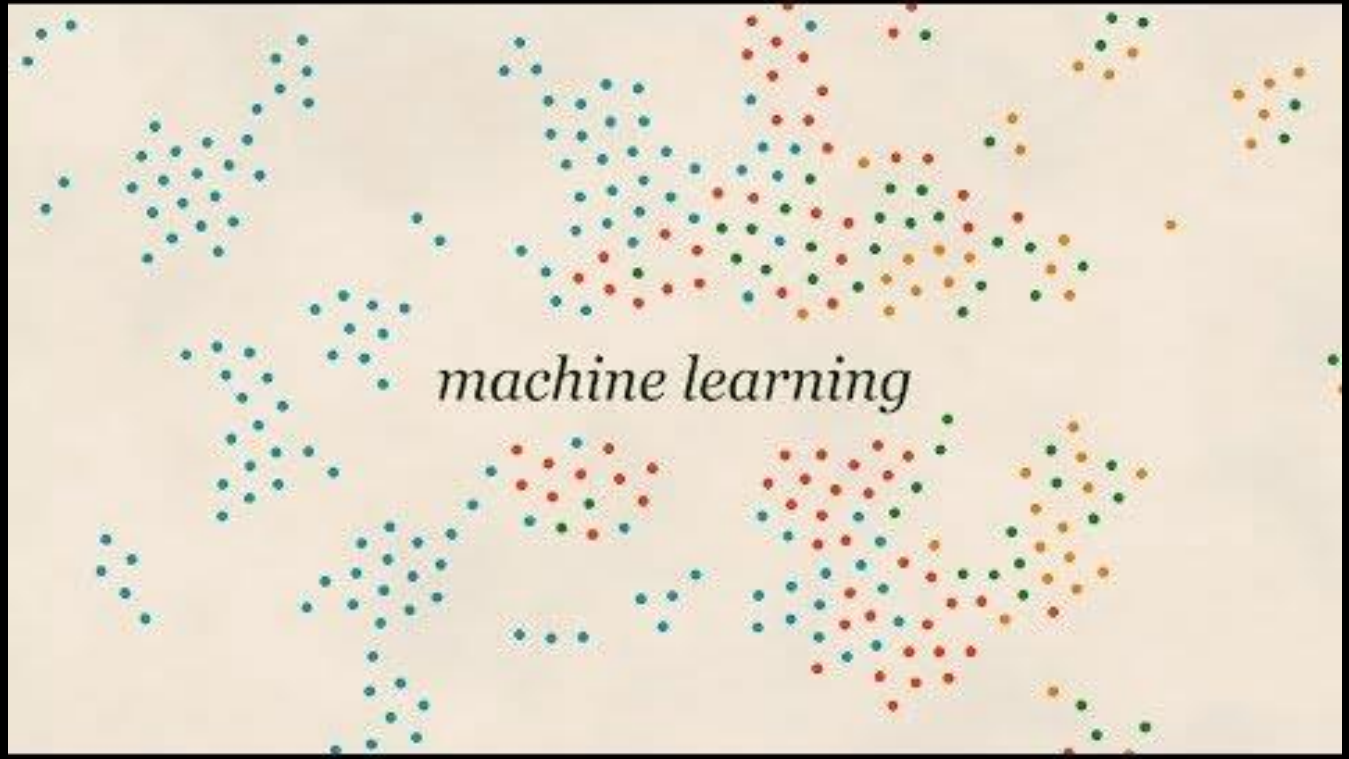
Idea to Implementation

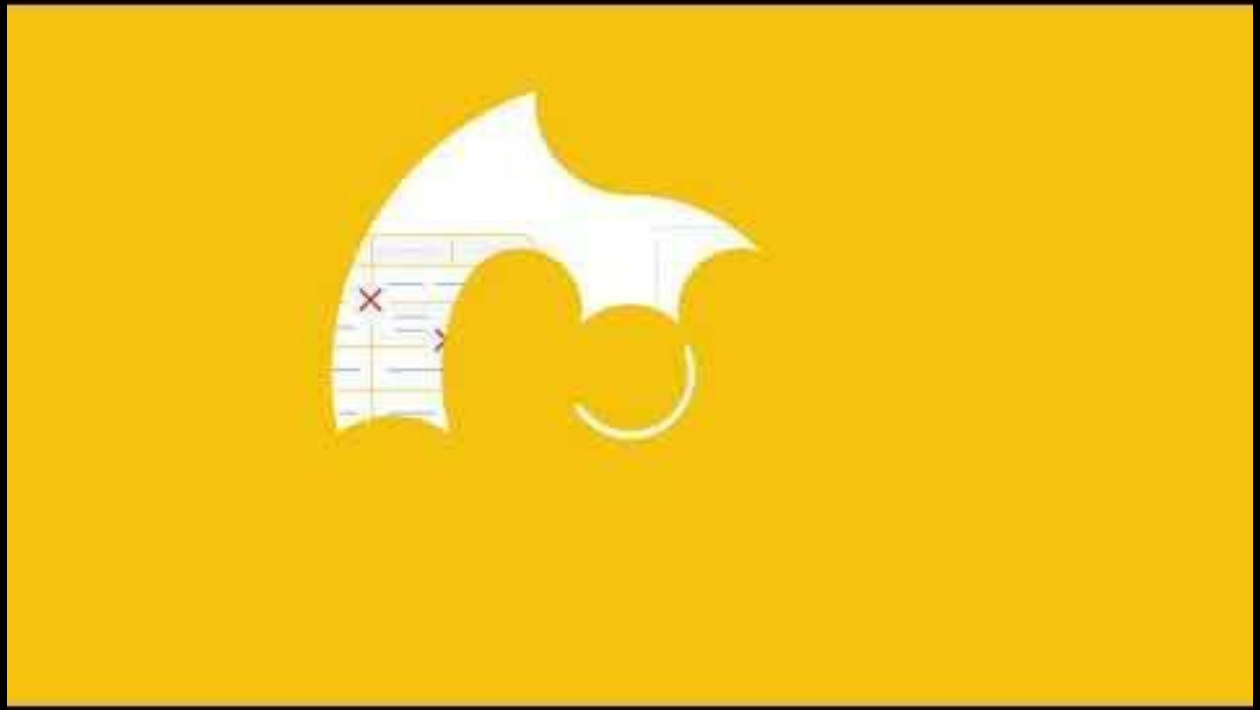


·ML·

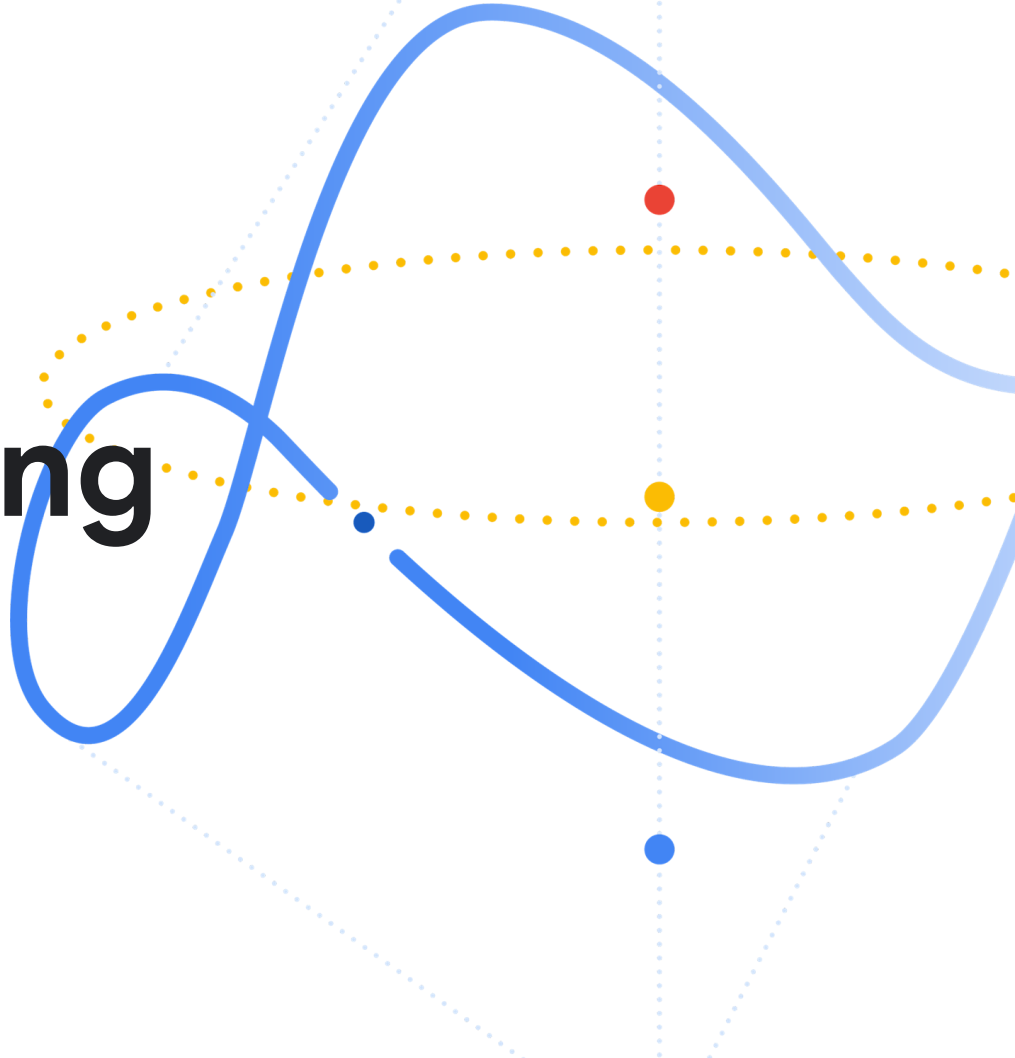
Machine Learning Process




machine learning

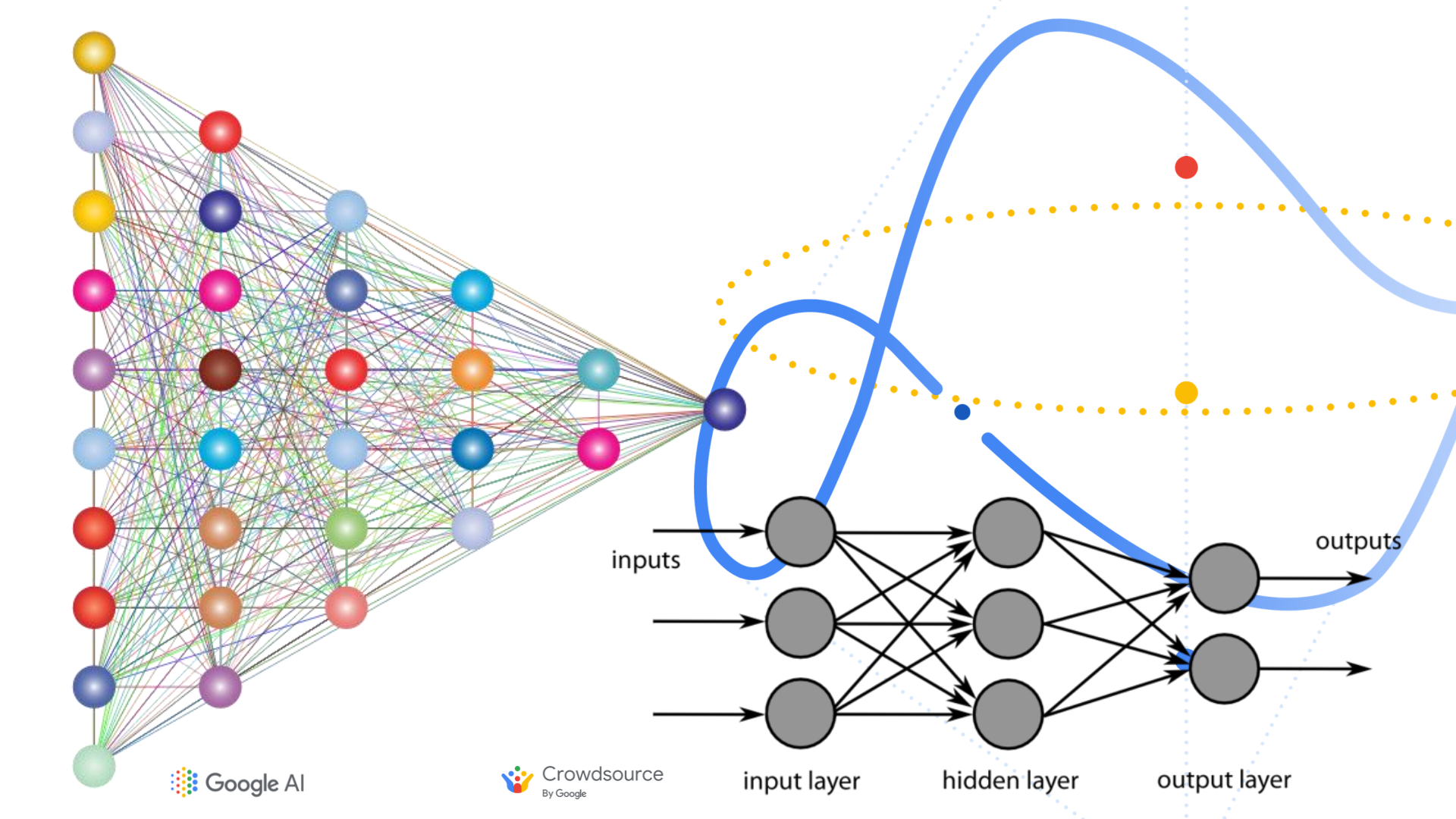


Deep Learning

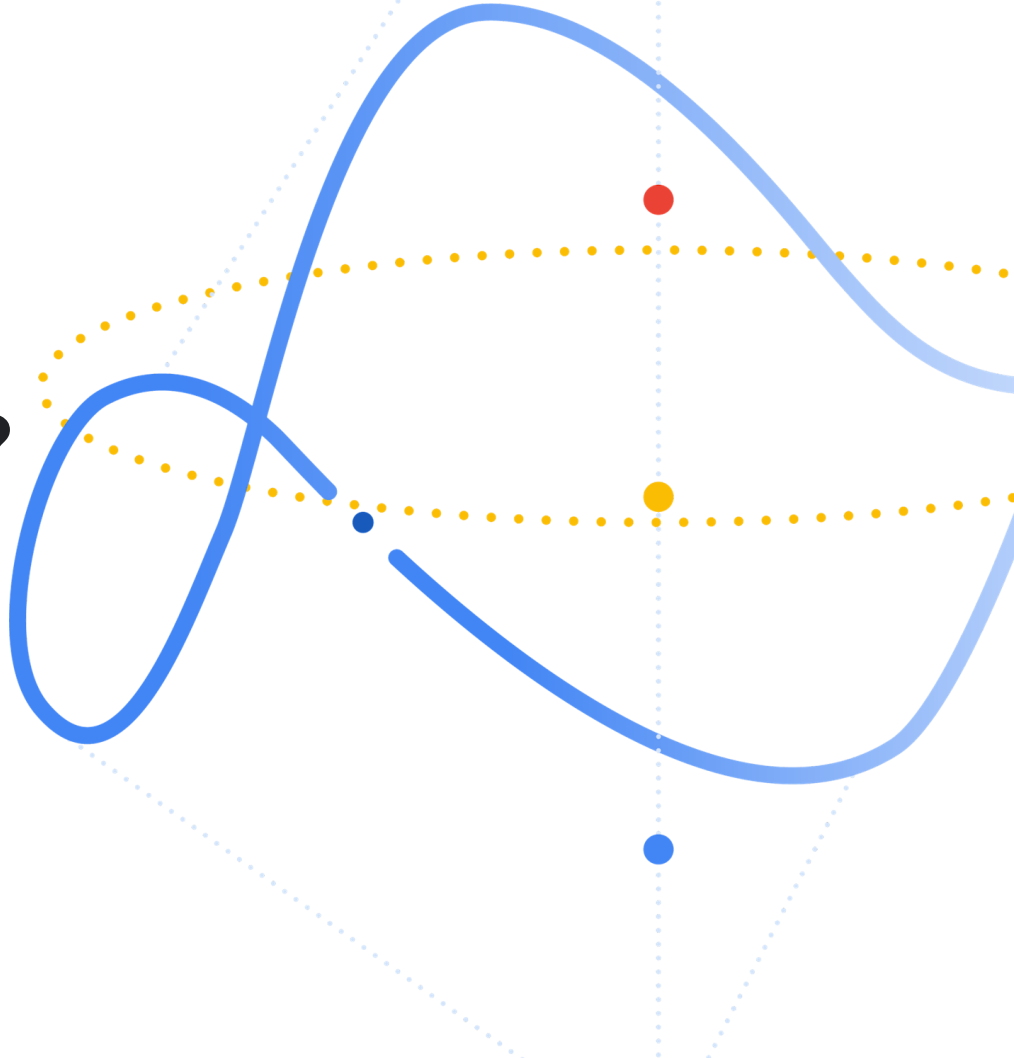


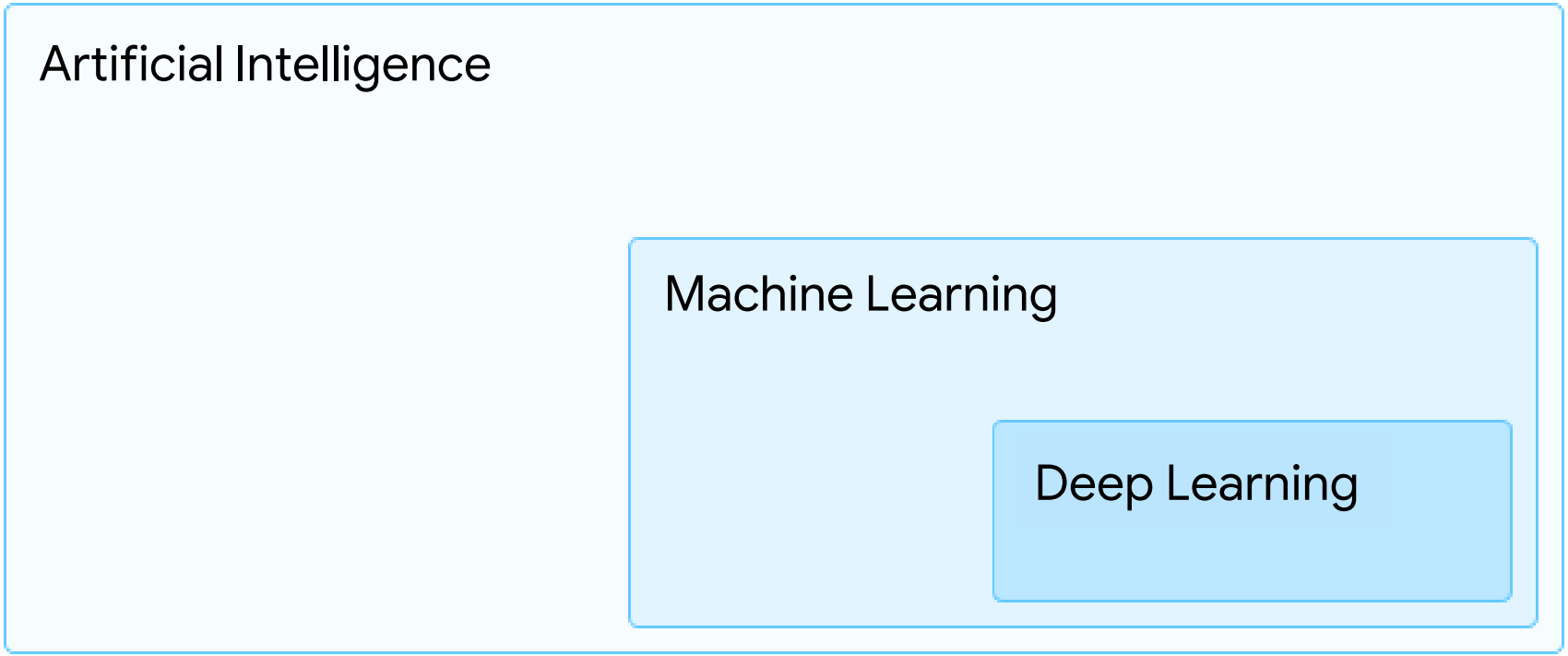
Google AI

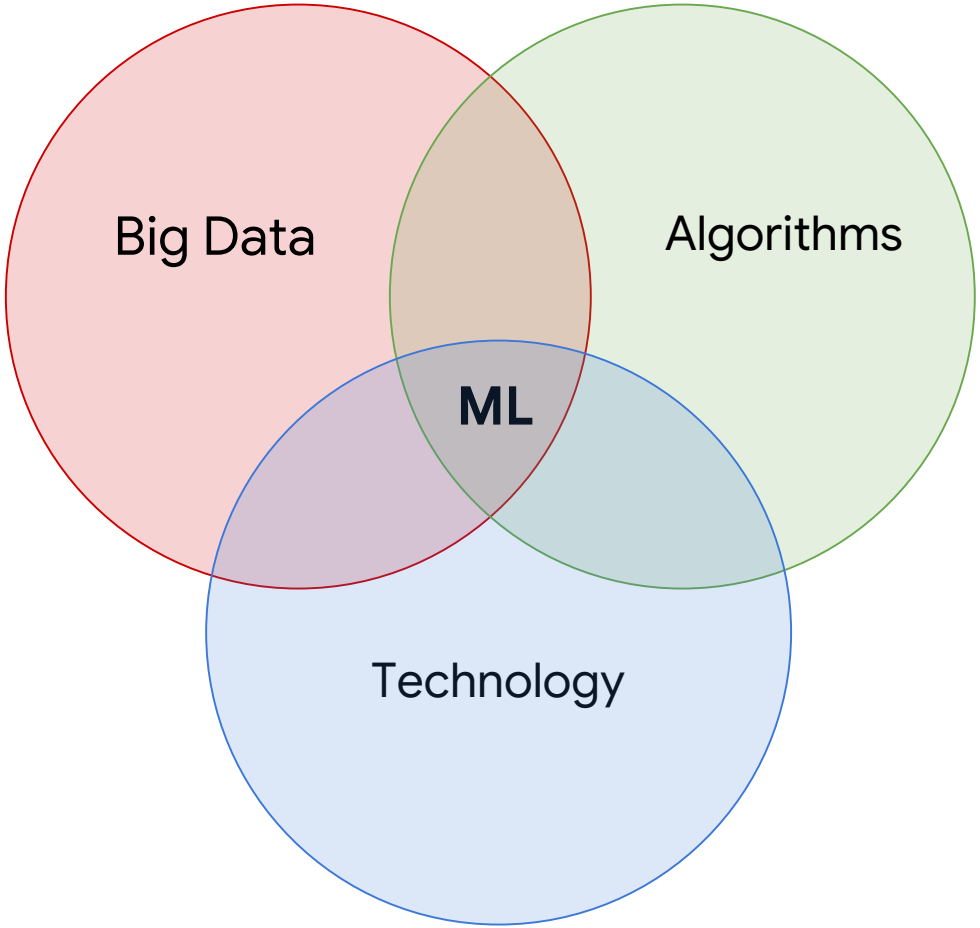
Crowdsource
By Google


inputs
outputs
input layer
hidden layer
output layer
Google AI
Crowdsource
By Google

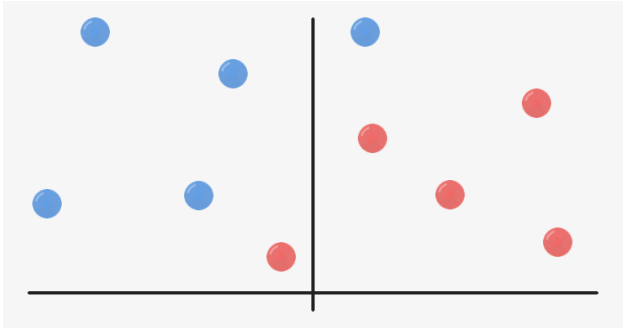
What Can ML Do?

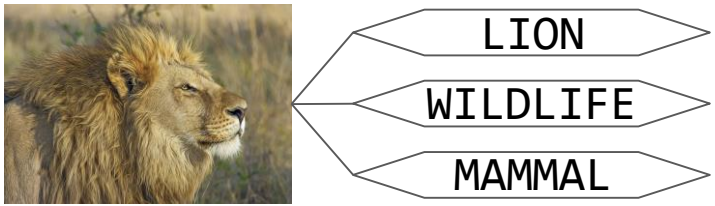



Artificial Intelligence
Machine Learning
Deep Learning


Big Data
Algorithms
ML
Technology

Classification





See in action

Sentiment Evaluation

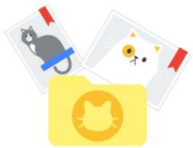
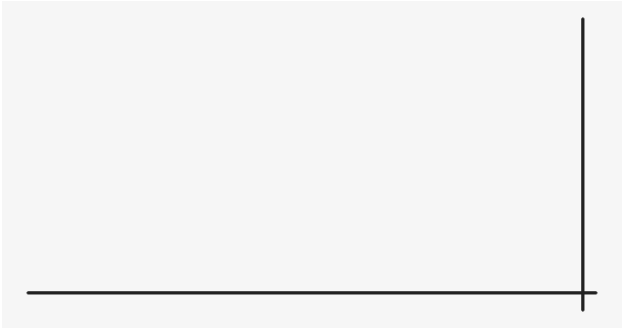


Image Label Verification

Smart camera

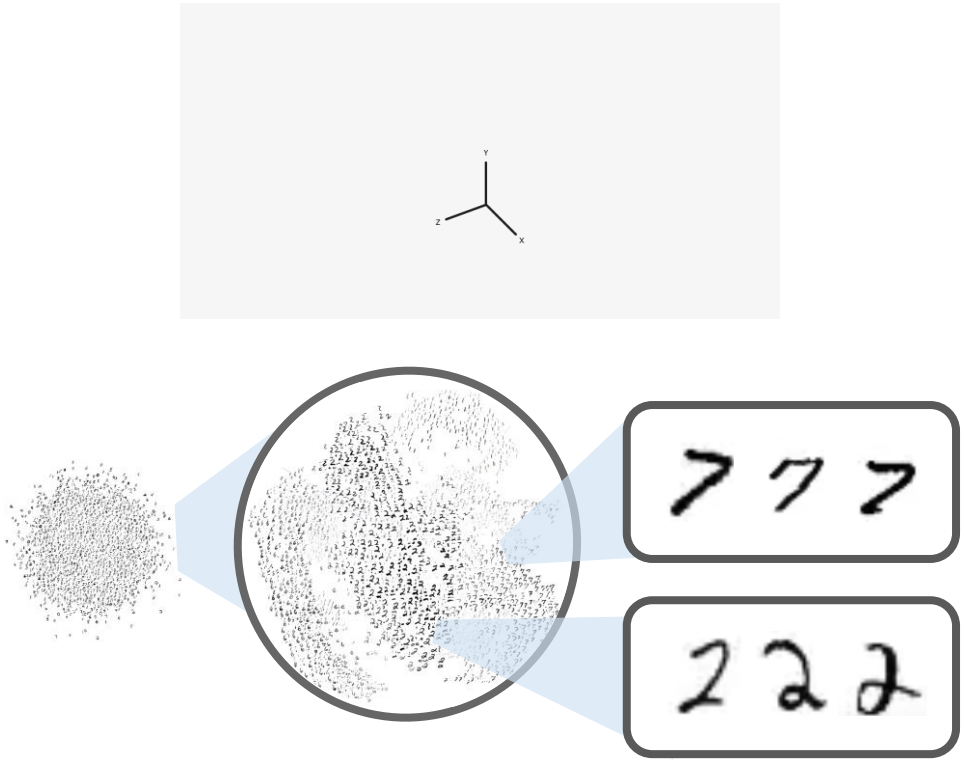
Visit https://crowdsource.app to download the app to try it.

Regression

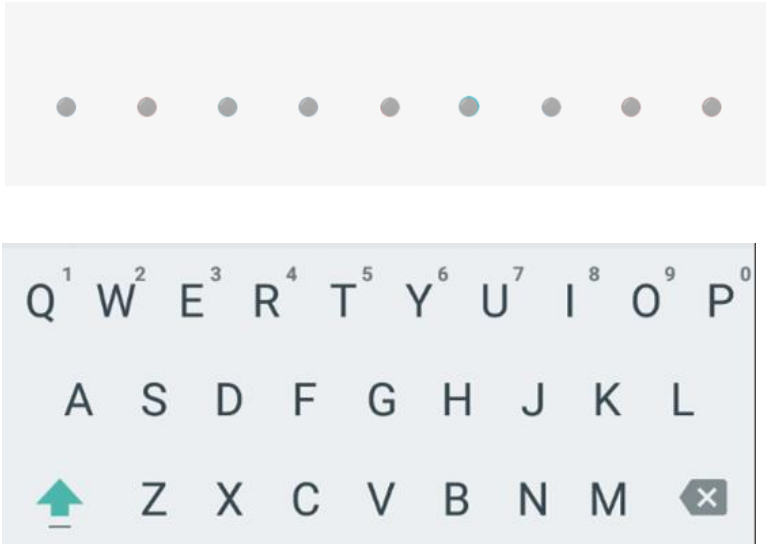


Mumbai
Navi Mumbai
नवी मुंबई
Pune
पुणे
1 h 10 min
from $76
13 h 27 min
13 h 28 min
712 km
Nanded
नांदेड
Latur
लातूर
Nizamabad
Karimna
Satara
सातारा
Gulbarga
Chanda Nagar
Hyderabad
Sangli Miraj

Clustering



Sequence Prediction



You can see Sequence Prediction in action by using Glide type, Handwriting recognition or Translation task on the Crowdsource app.

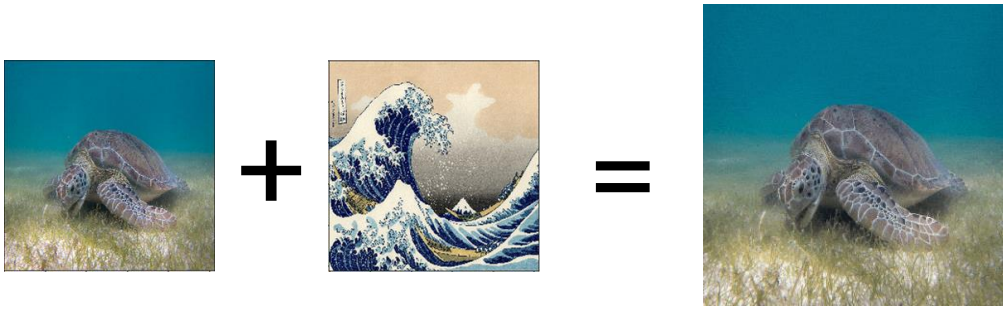
Glide type

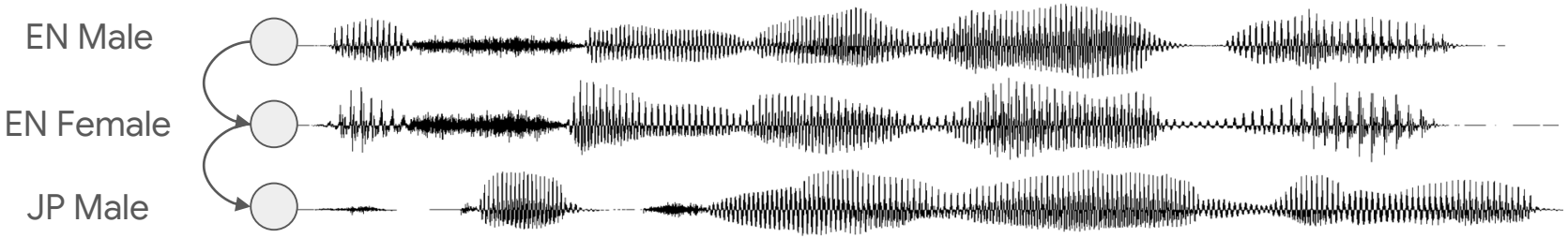
Handwriting Recognition

Translation

Visit https://crowdsource.app to download the app or if you already have Crowdsource app, try the Glide type, Handwriting recognition or Translation task. (App/web)

Style Transfer





Type of Machine Learning?

Recommending next word in the android SMS app based on the words typed so far

- Classification
- Clustering
- Regression
- **Sequence Prediction**
- Style Transfer

Type of Machine Learning?

Labeling email as spam or not-spam

- **Classification**
- Clustering
- Regression
- Sequence Prediction
- Style Transfer

Type of Machine Learning?

Identifying trends amongst a group of people who have bought a new music release

- Classification
- **Clustering**
- Regression
- Sequence Prediction
- Style Transfer

Type of Machine Learning?

A bot that reads the news in the voices of famous actors

- Classification
- Clustering
- Regression
- Sequence Prediction
- **Style Transfer**

Type of Machine Learning?

Determining workout activity based on phone movement.

- **Classification**
- Clustering
- Regression
- Sequence Prediction
- Style Transfer

Type of Machine Learning?

Identifying famous landmarks in a photo

- **Classification**
- Clustering
- Regression
- Sequence Prediction
- Style Transfer

Type of Machine Learning?

Suggesting spelling corrections

- Classification
- **Clustering**
- Regression
- Sequence Prediction
- Style Transfer

Type of Machine Learning?

Predicting the quality score for an advertisement

- Classification
- Clustering
- **Regression**
- Sequence Prediction
- Style Transfer

Type of Machine Learning?

Estimating arrival time based on time of day and traffic.

- Classification
- Clustering
- **Regression**
- Sequence Prediction
- Style Transfer

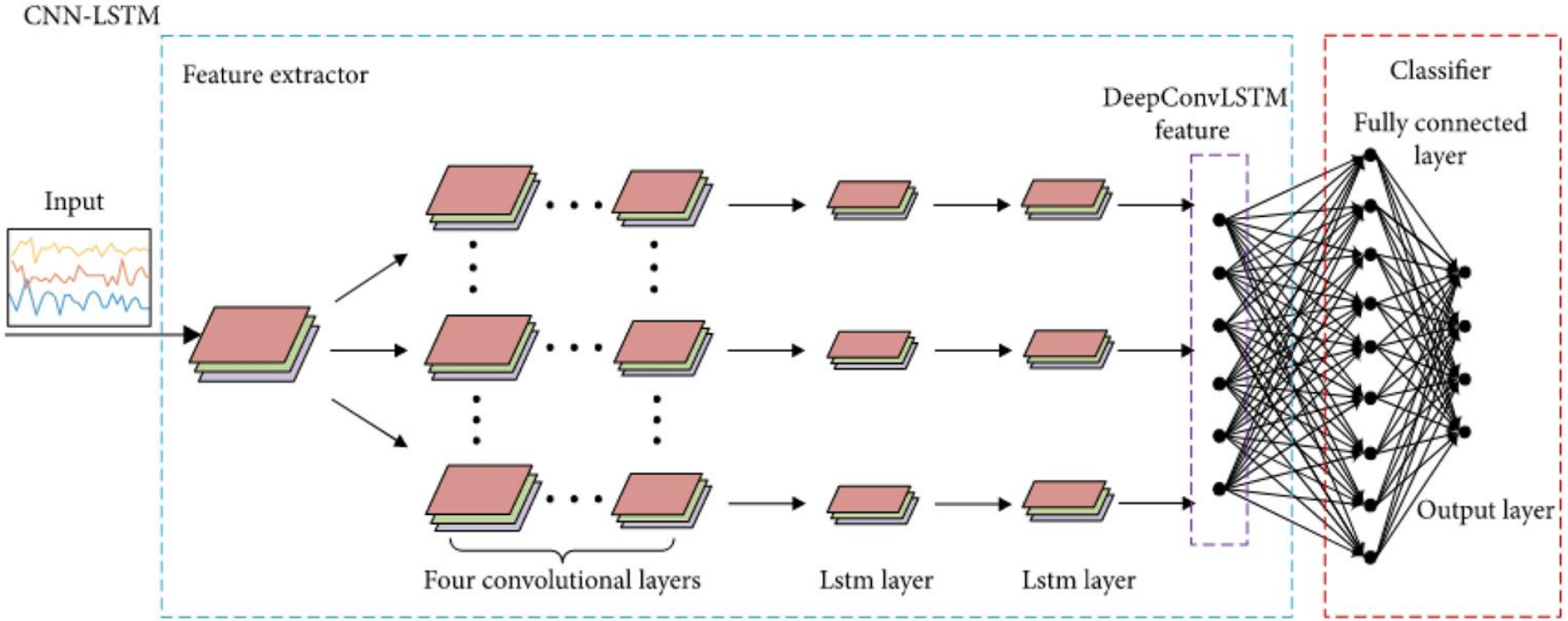
Type of Machine Learning?

Translating between two languages

- Classification
- Clustering
- Regression
- **Sequence Prediction**
- Style Transfer

DEEP FAKE TECH

What is Deep fake, How it works and how to ID them.



Google AI
Crowdsource By Google

Where
What
How
?
Who
When
Which

CHAT GPT VS BARD

HOW TO USE THEM

- http://bard.google.com/

- https://openai.com/chatgpt

USEFUL BOOK

YOU CAN GET IT HERE

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