01

Wherever I go I see deep learning

HOW & WHERE DEEP LEARNING IS USED?

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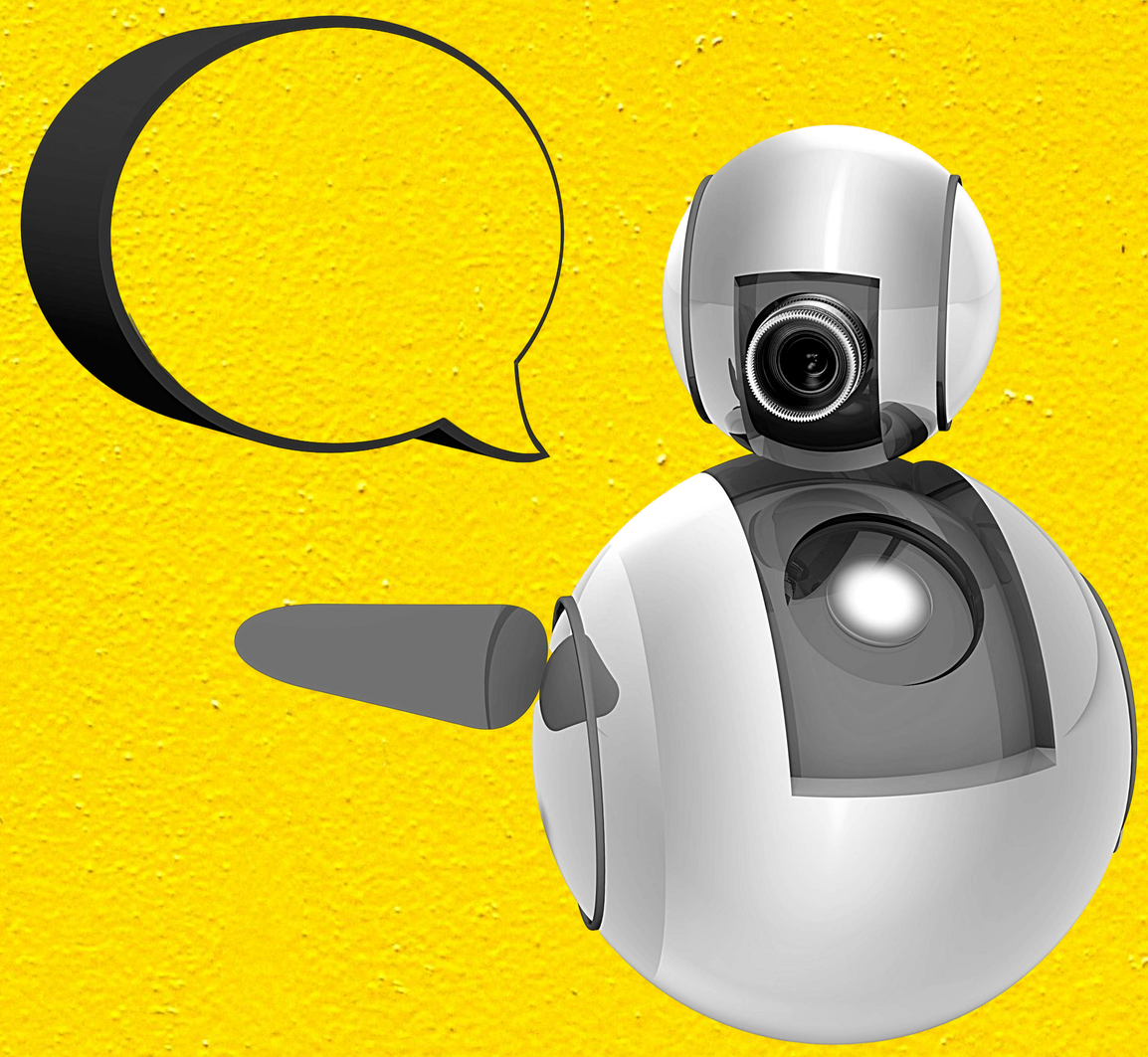
02



NATURAL LANGUAGE PROCESSING

- Question answering
- Speech recognition
- summarizing documents
- Classifying documents
- Finding names, dates, etc....f
- Language Modeling
- Machine Translation
- Generating Captions
- Sentiment Analysis
- Many more.....

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03

COMPUTER VISION

- Disaster resilience using satellite and drone images
- Face recognition
- Image captioning
- Reading traffic signs
- locating pedestrains and vehicles
- Image Classification
- Object Detection
- Object Segmentation
- Image Style Transfer
- Image Colorization
- Image Reconstruction
- Many more....

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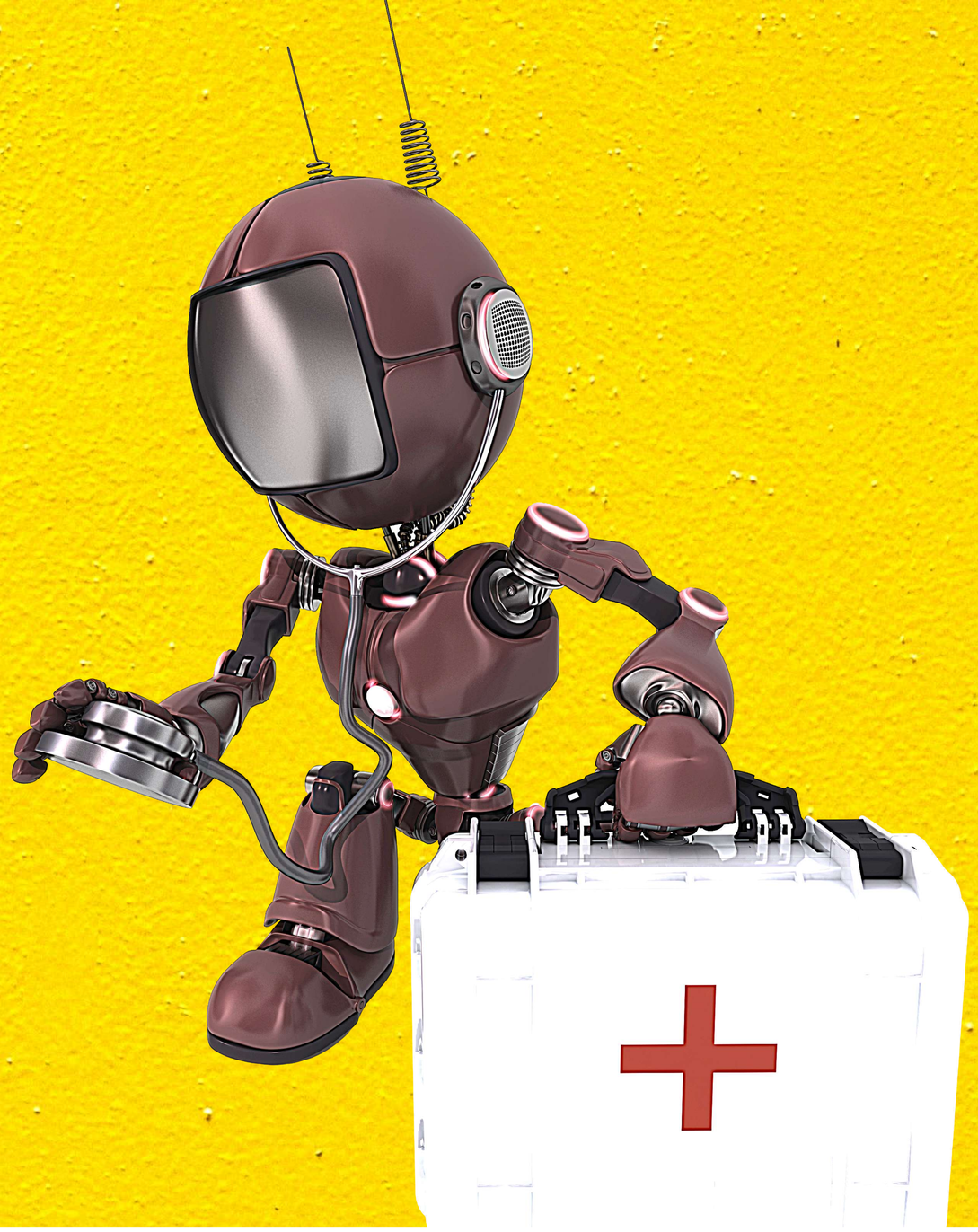
04



MEDICINE

- Finding anomalies in radiology images, CT, X-ray
- Counting features in pathology slides.
- Measuring features in ultrasounds
- Diagnosing diabetic retinopathy
- Identifying Diseases and Diagnosis
- Medical Imaging Diagnosis
- Personalized Medicine
- Many more....

05

BIOLOGY

- Folding proteins
- Classifying proteins
- Many genomics tasks like tumor-normal sequencing
- Classifying clinically actionable genetic mutations
- Cell classification
- Analyzing protein/protein interactions
- Identifying gene coding regions
- Many more....

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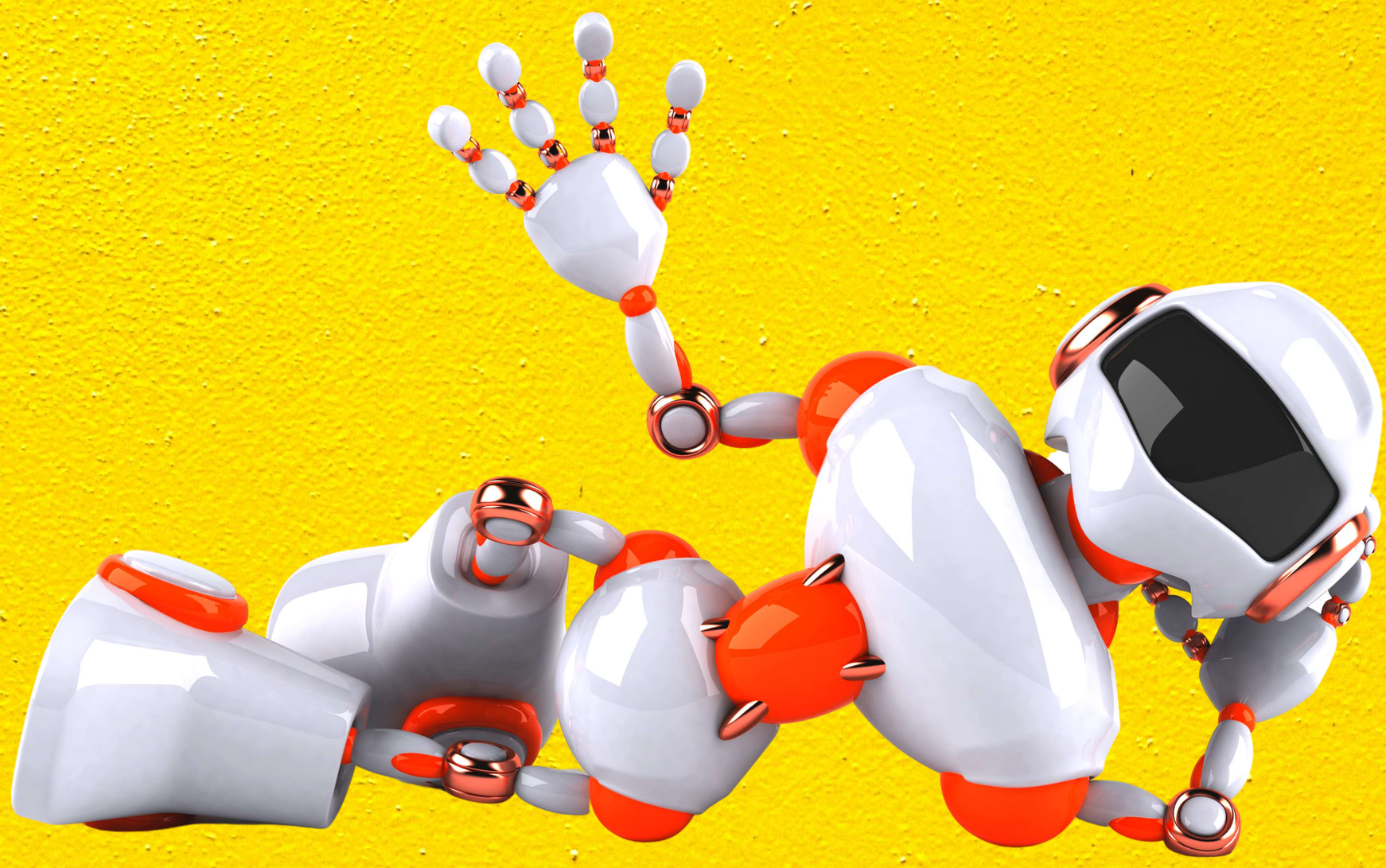
RECOMMENDATION SYSTEMS

- Web search
- Product recommendations
- Home page layout
- Music Information Retrieval
- Netflix movie recommendation
- Spotify music
- YouTube video
- Many more....

07

PLAYING GAMES

- Chess
- Go
- Dota 2
- Most Atari video games
- Modeling Complex Systems
- Making Games More Beautiful
- More Realistic Interactions
- Universe Creation on the Fly
- More Engaging Mobile Games
- Many more....



ROBOTICS

- Object picking
- Navigating in challenging environments
- Assistive and medical technologies
- Imitation learning
- Multi-agent Learning
- Motion Control
- Many more....
- obstacle avoidance to maintain productivity

09

MANY MANY MORE

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