

# Tema 3 : Aplicaciones

# Deep Learning in One Slide

- **What is it:**

Extract useful patterns from data.

- **How:**

Neural network + optimization

- **How (Practical):**

Python + TensorFlow & friends

- **Hard Part:**

Good Questions + Good Data

- **Why now:**

Data, hardware, community, tools, investment

- **Where do we stand?**

Most big questions of intelligence have not been answered nor properly formulated

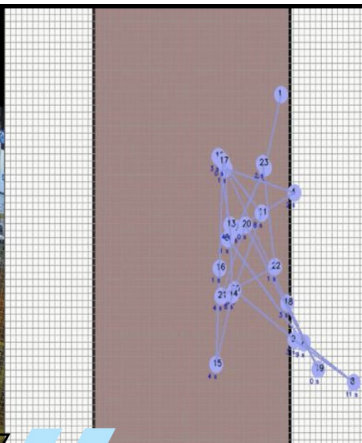
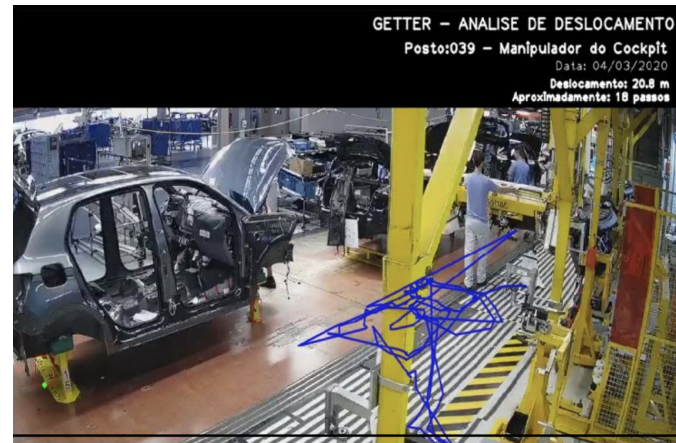
## Exciting progress:

- Face recognition
- Image classification
- Speech recognition
- Text-to-speech generation
- Handwriting transcription
- Machine translation
- Medical diagnosis
- Cars: drivable area, lane keeping
- Digital assistants
- Ads, search, social recommendations
- Game playing with deep RL

source:  
MIT Deep Learning

- AutoML: <https://www.youtube.com/watch?v=GbLQE2C181U>
- Face Recognition: <https://www.kairos.com/demos>
- Fakenet: <https://thispersondoesnotexist.com>
- GPT-2: <https://talktotransformer.com>
- AlphaGo: <https://www.youtube.com/watch?v=1PkrEJeazWw>
- Self-driving: <https://www.youtube.com/watch?v=-96BEoXJMs0>

Ejemplo que estoy  
trabajando actualmente



ALÉM DE IDENTIFICAR TAREFAS EXECUTADAS EM  
DESACORDO COM A POSTURA PLANEJADA

