Intro to Al



@Ahmedtronic

Agenda:

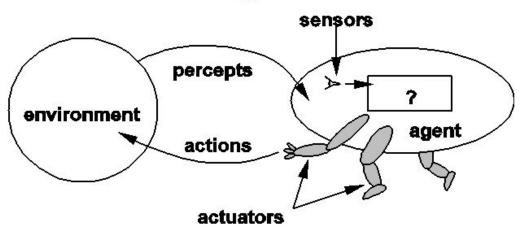
- Examples of Al
- How Exactly AI works?
- Making an Al agent
- Types of machine learning
- Classification Algorithms
- Selecting best Algorithm
- Phases of implementing AI model
- Python start
- Google Cloud Platform
- Conclusion

Real Examples of Al... know before you enter



What is AI, How it works?

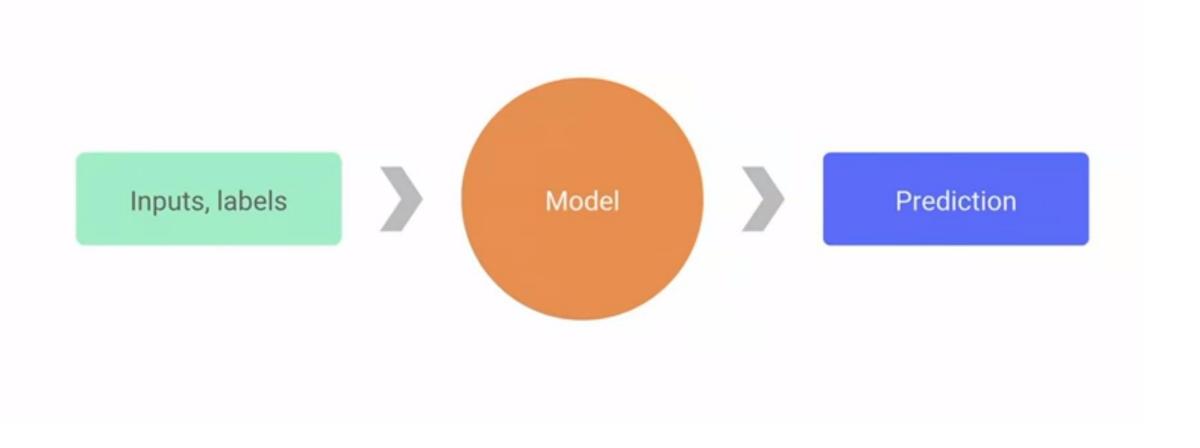
Agents



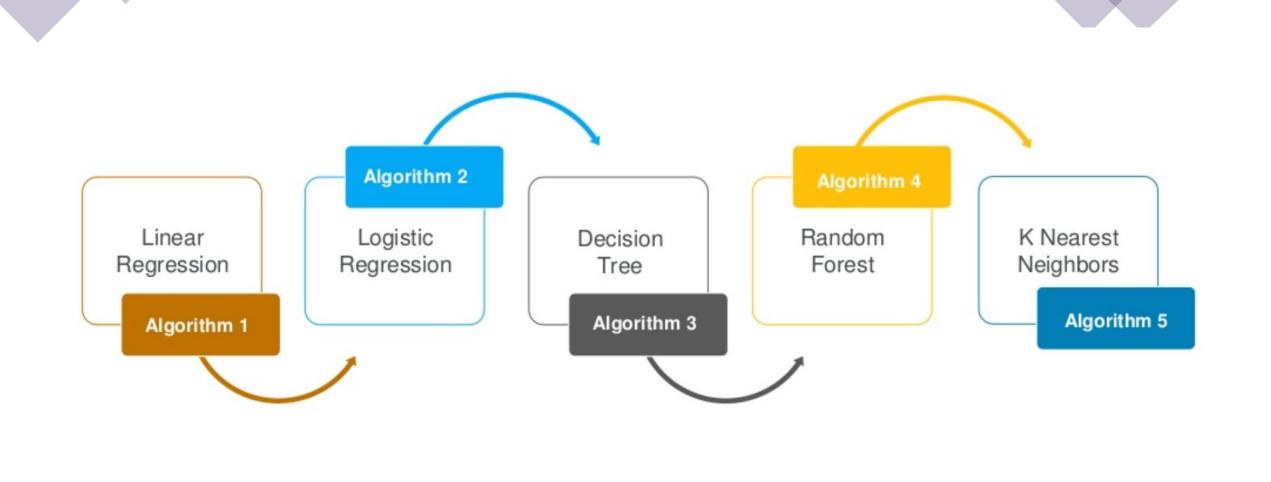
- Agent perceives the environment through sensors and acts on it through actuators
- Percept agent's perceptual input (the basis for its actions)
- Percept Sequence complete history of what has been perceived.

Making an Al agent, define your problem

Types of machine learning...



Classification vs. Regression



Here we have the types of classification algorithms in Machine Learning:

- 1. Linear Classifiers: Logistic Regression, Naive Bayes Classifier
- 2. Nearest Neighbor
- 3. Support Vector Machines
- 4. Decision Trees
- 5. Boosted Trees
- 6. Random Forest
- 7. Neural Networks

How do we get from input to prediction?

inputs model prediction

Google Dataset Search Beta

daily weather





Dataset Repositories

Let's code...







What is Machine Learning?

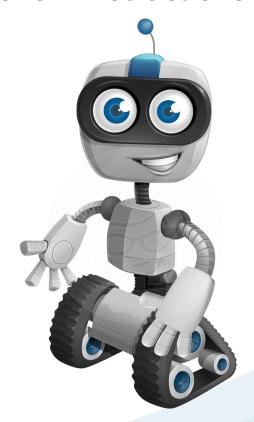
Learn from experience



Learn from experience data



Follow Instructions

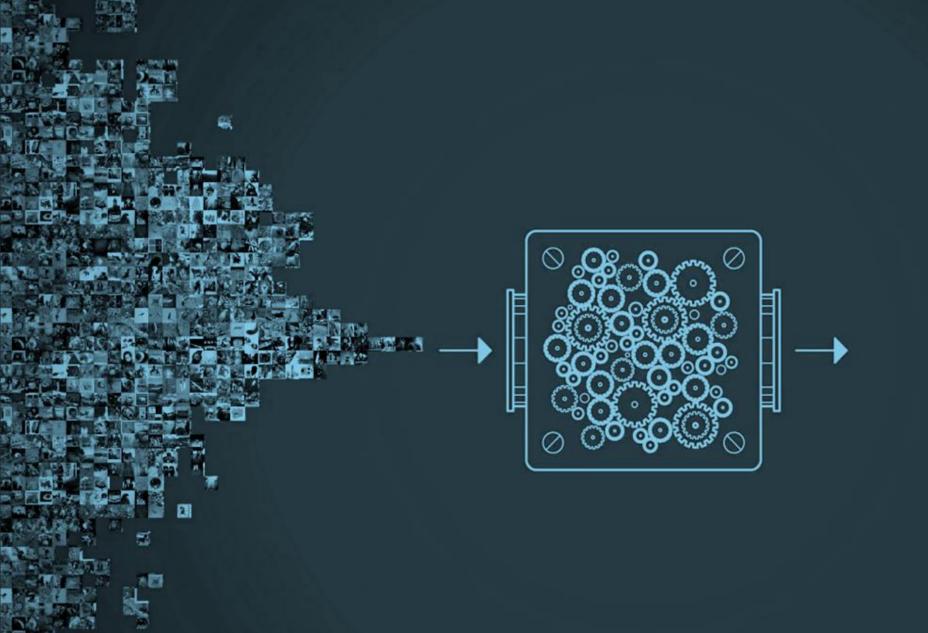


Types of ML:

Supervised Unsupervised Reinforcement

Deep Learning

Performance measurement



Data

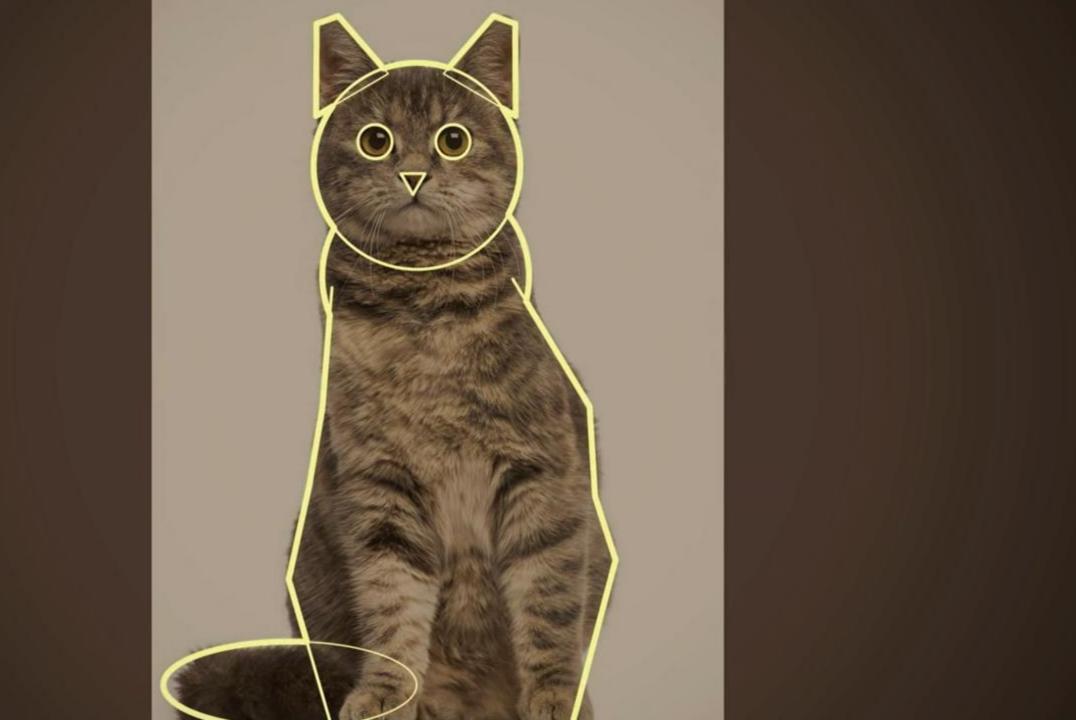


For an Organization

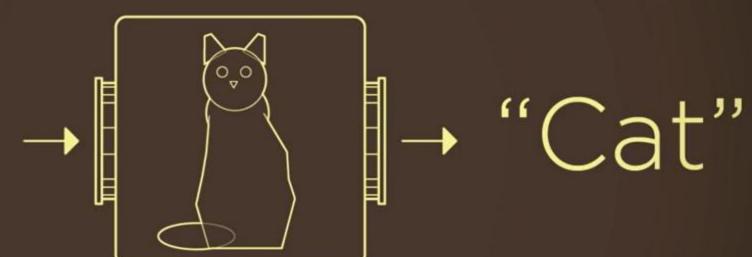


Time Money Skilled people



















Getting Started...

What else?

Basic syntax of python Probability
Statistics
Number Theory

Looking for recommendations?

Intro to AI (Udacity)

Machine Learning (Coursera)

Machine learning from A to Z

Machine learning nanodegree (Udacity)

Conclusion:

- Artificial Intelligence... what, when, where, why and how?
- Machines are becoming more helpful doing complex tasks
- Machines learn from data to be more accurate
- Data preparation is one of the most important things in the training process
- Neural networks has helped solve more complex task that simple ml algorithms couldn't
- You don't need deep knowledge in math or coding to start, only basic python syntax.

Thankyou