Machine Learning Overview

After this video you will be able to..

- Explain what machine learning is

- List three applications of machine learning encountered in everyday life
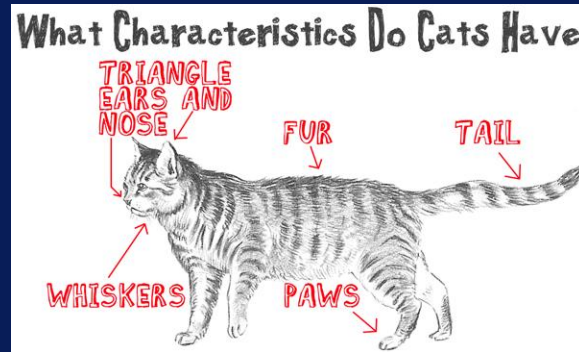
What is Machine Learning?

Machine Learning is…

…learning from data

Machine Learning is…
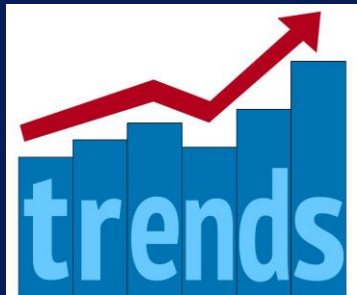
… learning from data

… no explicit programming

What Characteristics Do Cats Have

TRIANGLE EARS AND NOSE

FUR

TAIL

WHISKERS

PAWS

Machine Learning is…

… learning from data
… no explicit programming
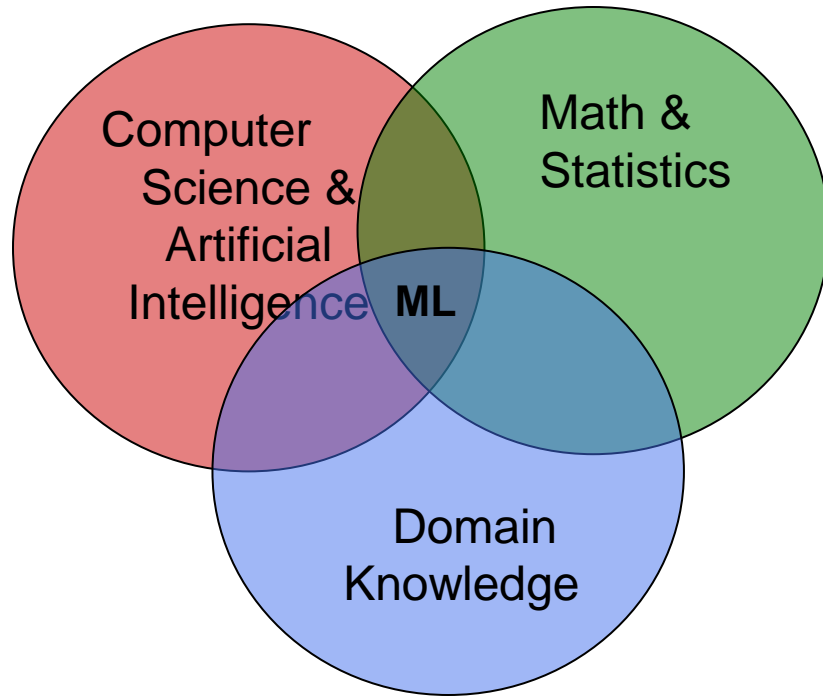… discovering hidden patterns

Machine Learning is…

… learning from data

… no explicit programming

… discovering hidden patterns

… data-driven decisions

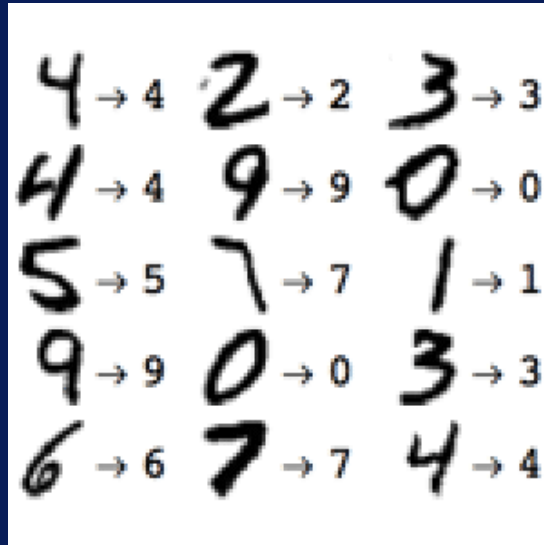# Machine Learning (ML) is an Interdisciplinary Field

Example Application of Machine Learning
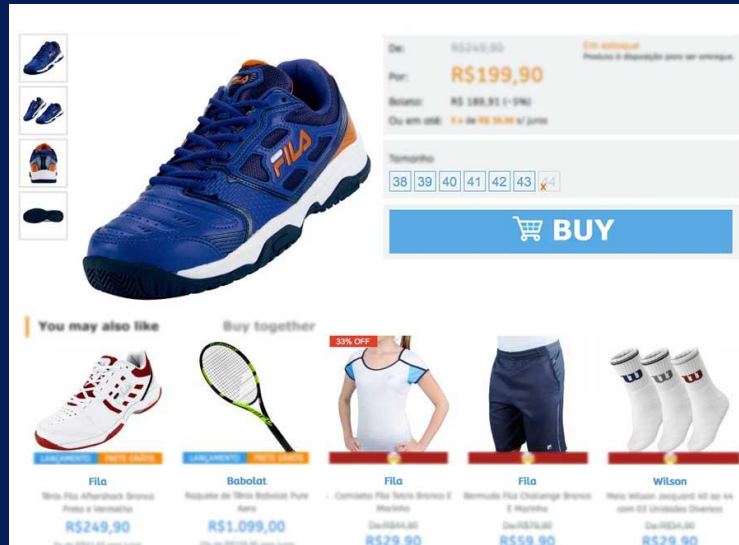
- **Credit card fraud detection**

Example Application of Machine Learning

- **Handwritten digit recognition**

Example Application of Machine Learning

- **Recommendations on websites**

More Applications of Machine Learning

- **Targeted ads on mobile apps**
- **Sentiment analysis**
- **Climate monitoring**
- **Crime pattern detection**
- **Drug effectiveness analysis**

What's in a Name?

Machine learning

Data mining

Predictive analytics

Data science

Machine Learning Models

- **Learn from data**
- **Discover patterns and trends**
- **Allow for data-driven decisions**
- **Used in many different applications**