

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?



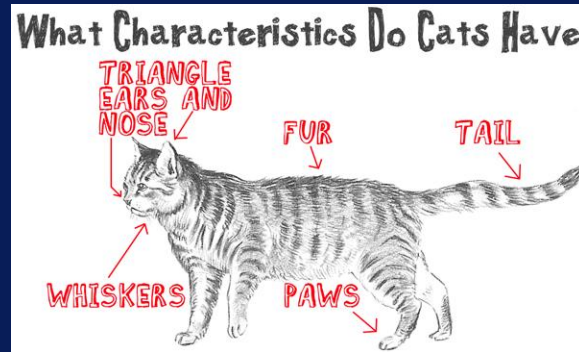
Machine Learning is...
...learning from data



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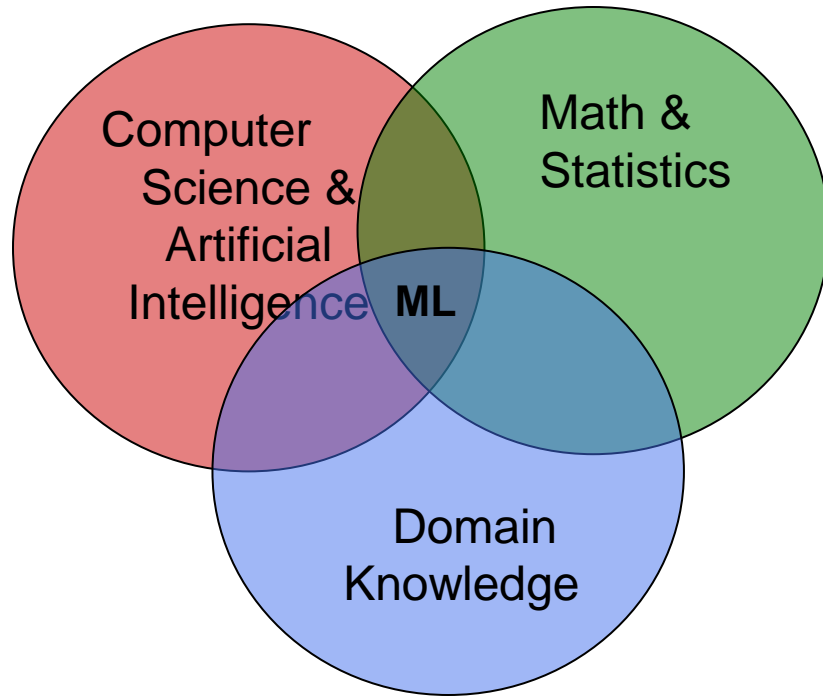
... discovering hidden patterns



Machine Learning is...

- ... learning from data
- ... no explicit programming
- ... discovering hidden patterns
- ... data-driven decisions

Machine Learning (ML) is an Interdisciplinary Field



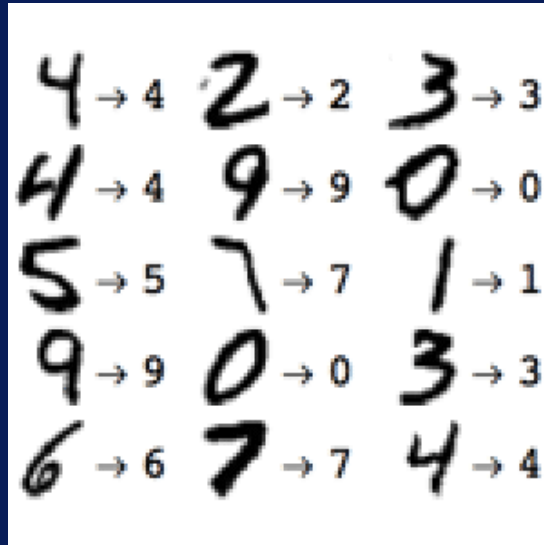
Example Application of Machine Learning

- Credit card fraud detection



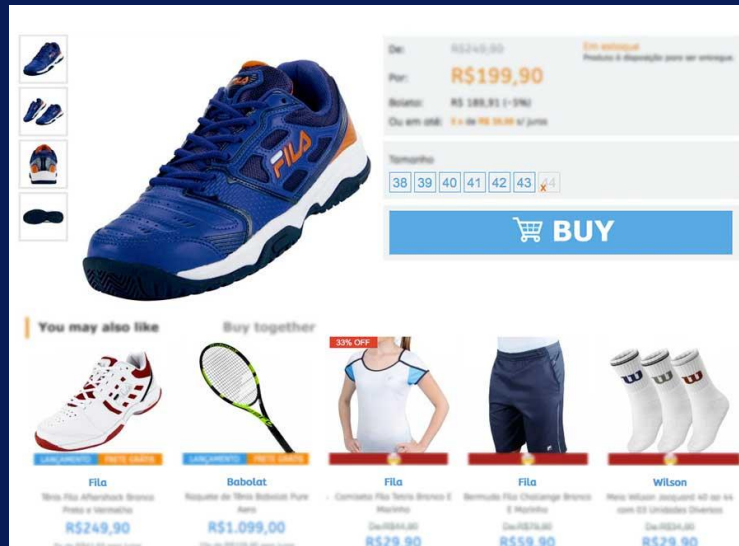
Example Application of Machine Learning

- 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

