# Python and Applied Machine Learning

Introduction about Machine Learning & Python

Week - 1

#### About Me

- Research Scientist, Data analyst, Consultant, Entrepreneur, brand influencer, blogger, YouTuber, Love reading books
- Expertise in
- ➤ Text Analytics & Data Science
- ➤ Natural Language Processing
- ➤ Speech and Signal processing
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- YouTube Tech Research





#### Outline

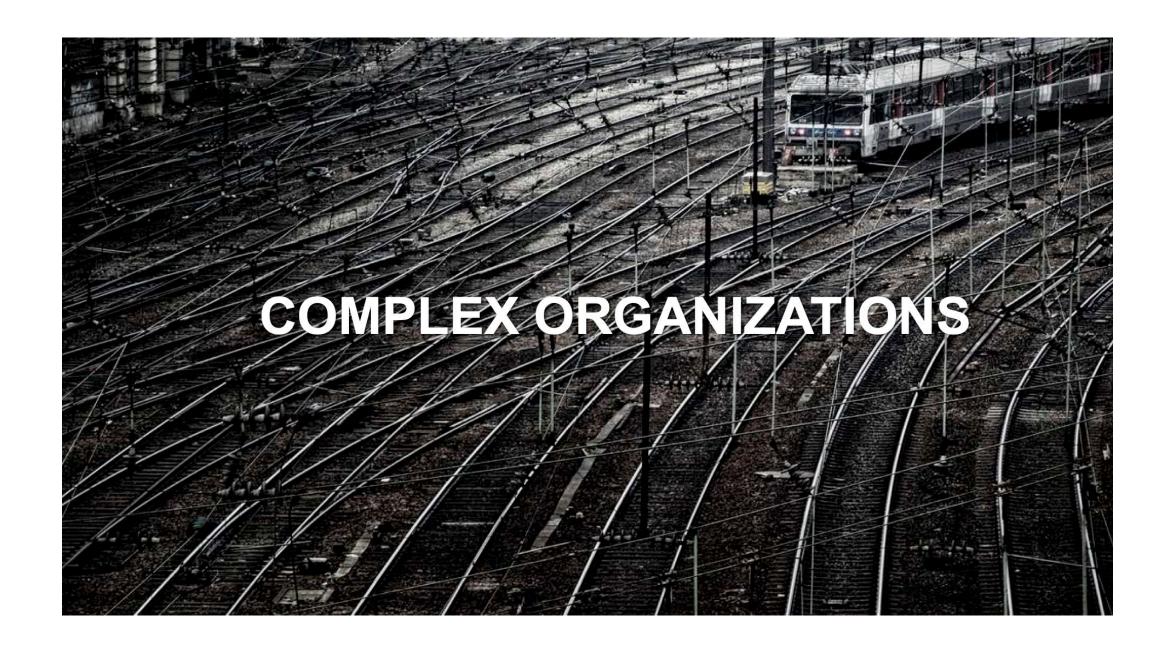
- Overview of Course 5 weeks
- Introduction ML
- Applications of ML
- Installation of Python and Pycharm
- Python commands
- Time for coding...

## Overview of Course

- 5 Week Course
- https://github.com/HackYourFuture-CPH/Machine\_Learning

# Why ML?







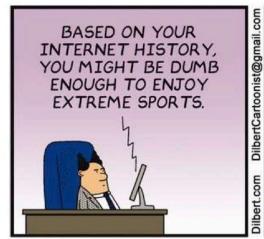
## DIVERSE, EVOLVING AND

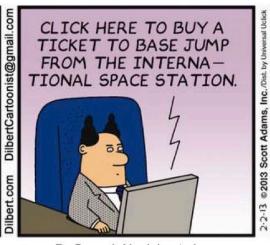
## SOPHISTICATED THREAT

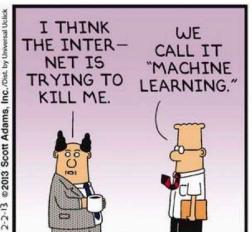


## Machine Learning

- Machine learning is the field of study that gives computers the ability to learn without being explicitly programmed.
- In simple term, Machine Learning means making prediction based on data

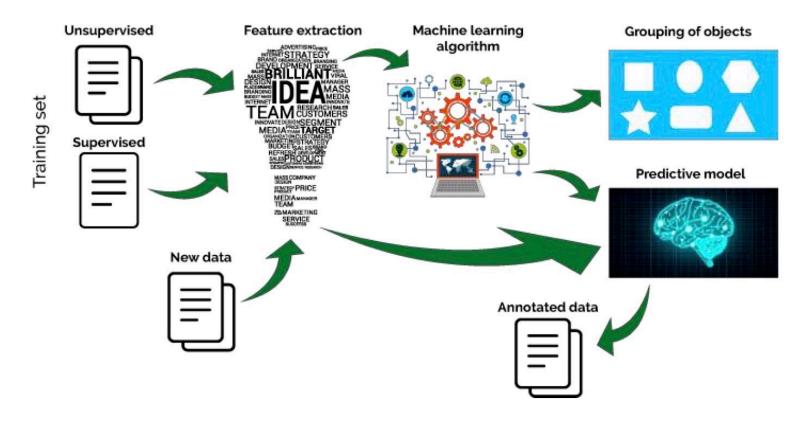






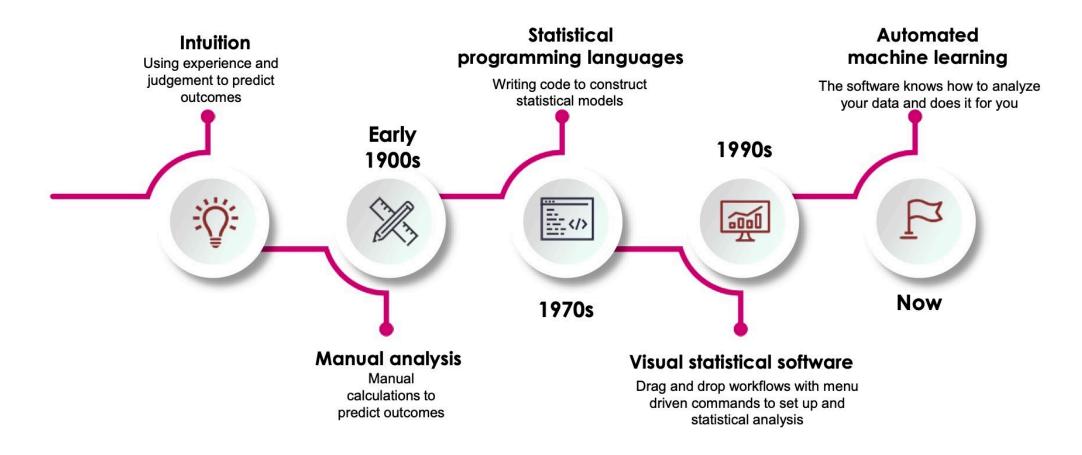
Dr Ganesh Neelakanta Iyer

## **Machine Learning**

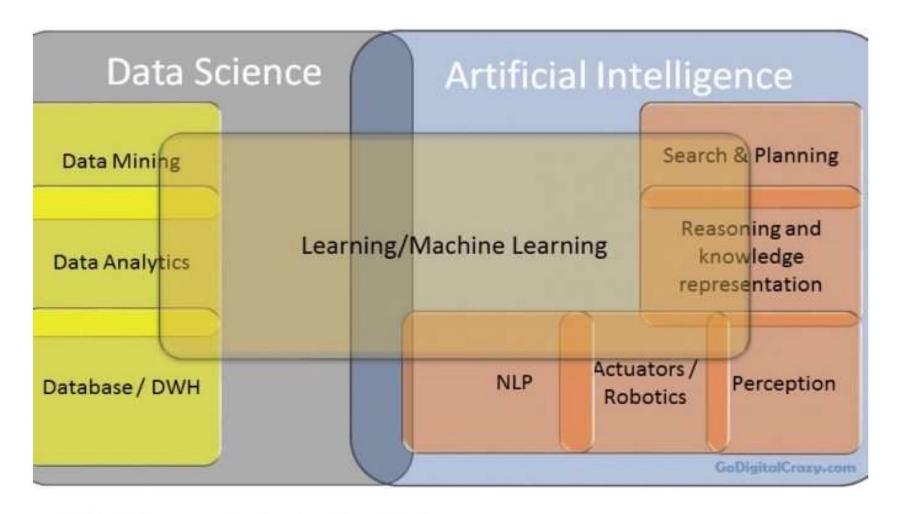


## A quick history.

#### From intuition to machine learning



## Al vs ML



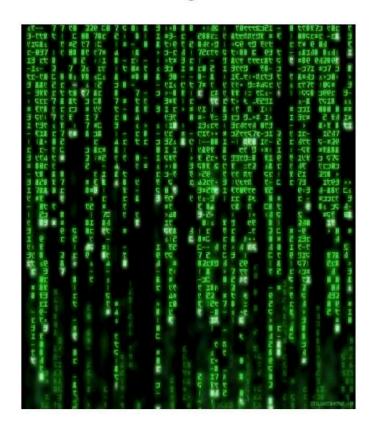
http://godigitalcrazy.com/artificial-intelligence-machine-learning-data-analytics/

## Why Machine Learning is Hard

You See



Your ML Algorithm Sees



#### Why machine learning is hard?

Learning to identify an 'apple'?

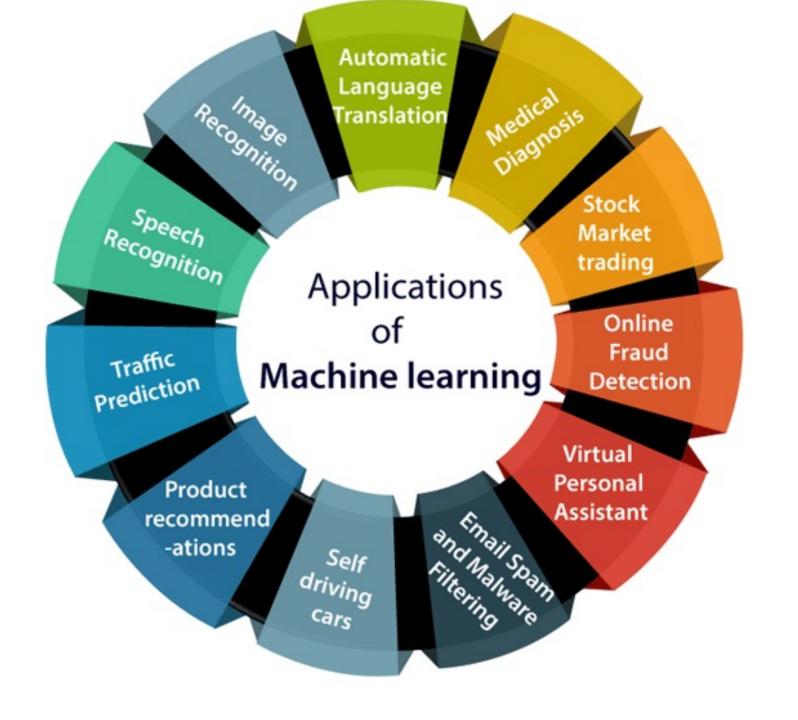






	Apple	Apple corporation	Peach
Colour	Red	White	Red
Type	Fruit	Logo	Fruit
Shape	Oval	Cut oval	Round

ML Applications



# Installation of Python

• Ready to code?

## Python Commands

- Variables
- Comments
- Receiving Input
- Strings
- Arithmetic Operations
- If Statements
- Comparison operators
- While loops
- For loops
- Lists
- Tuples
- Dictionaries