# MINING INTERNET OF THINGS DATA

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#### **COURSE INFORMATION**

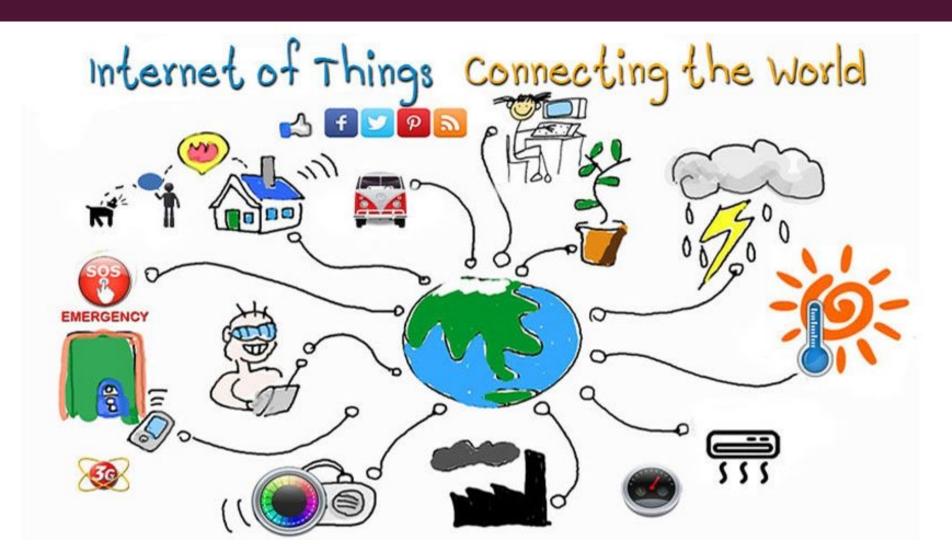
Outline: <a href="https://beiyulincs.github.io/teach/spring\_22/iot.html">https://beiyulincs.github.io/teach/spring\_22/iot.html</a>

Syllabus: <a href="https://beiyulincs.github.io/teach/spring">https://beiyulincs.github.io/teach/spring</a> 22/syllabus cs 789.pdf

## OUTLINE

- What is IoT?
- What is IoT Data?
- Why IoT is important?
- Topics and outline of this course

## WHAT IS IOT?



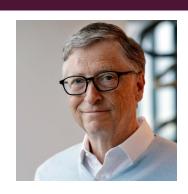
#### WHAT IS IOT?

### The Internet of Things (IoT):

- -- the billions of physical devices around the world that are now connected to the internet, all collecting and sharing data
- -- merging the digital and physical universes
- -- e.g., from a pill to aeroplane

#### WHY IOT IS IMPORTANT

"If you invent a breakthrough in artificial intelligence, so machines can learn, that is worth 10 Microsofts." — Bill Gates





"As the Internet of things advances, the very notion of a clear dividing line between reality and virtual reality becomes blurred, sometimes in creative ways.." - Geoff Mulgan



If I had to guess at what our biggest existential threat is, I'd probably say that. So we need to be very careful."— Elon Musk

#### TOPICS IN THIS COURSE

- Smart environment (home/building/city)
- Smart healthcare
- Agriculture and climate
- Transportation
- Sports and other industry

### TOPICS IN THIS COURSE

- Each topic will cover:
  - Data properties
  - Algorithms
  - Coding (python)
  - Guest lecture