

ONLINE MASTERS IN **DATA SCIENCE**

DSC 207 - PYTHON FOR DATA SCIENCE

DEFINING DATA SCIENCE


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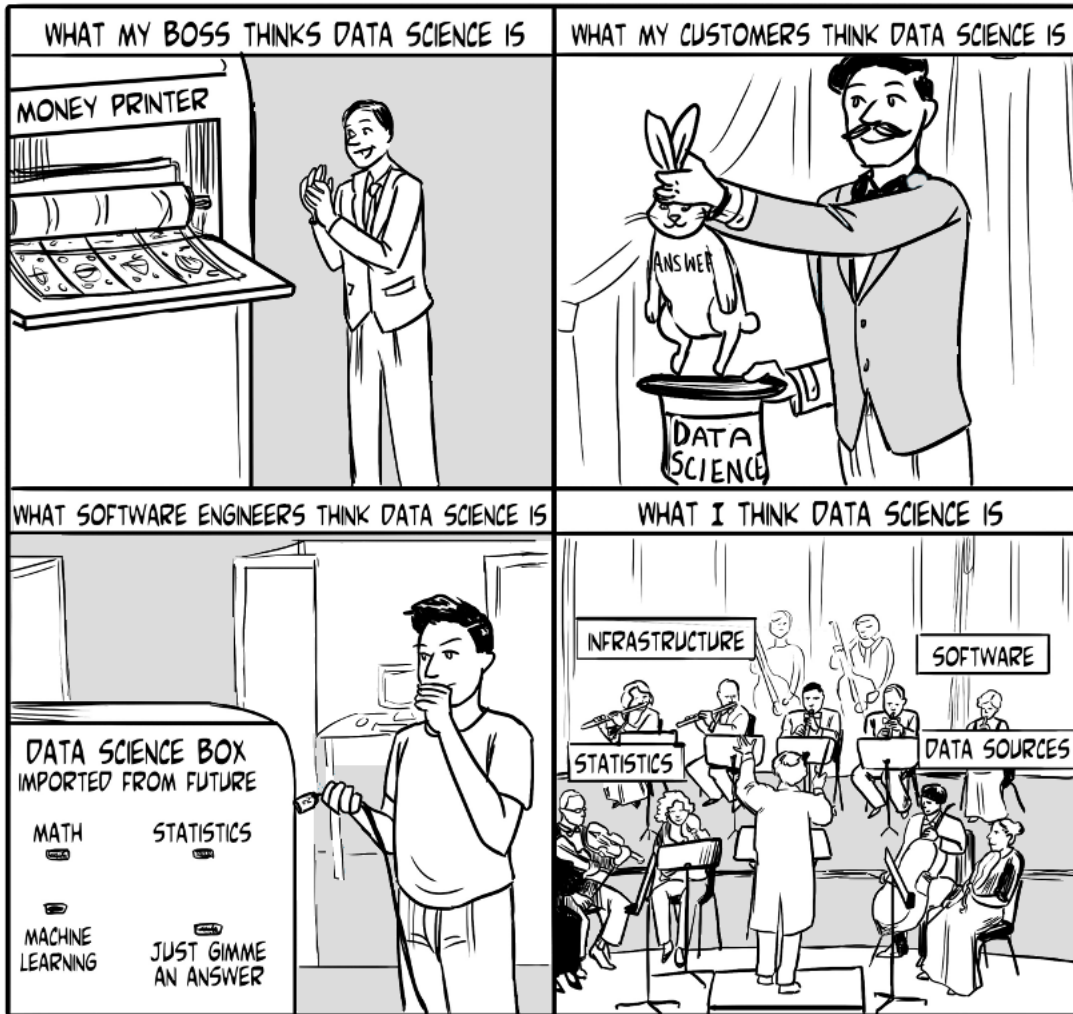
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COMPUTER SCIENCE & ENGINEERING
HALICIOĞLU DATA SCIENCE INSTITUTE



By the end of this video, you will be able to:

- Describe what modern data science is
 - Explain the difference between data, information and knowledge
 - Recite an everyday example for data science in action
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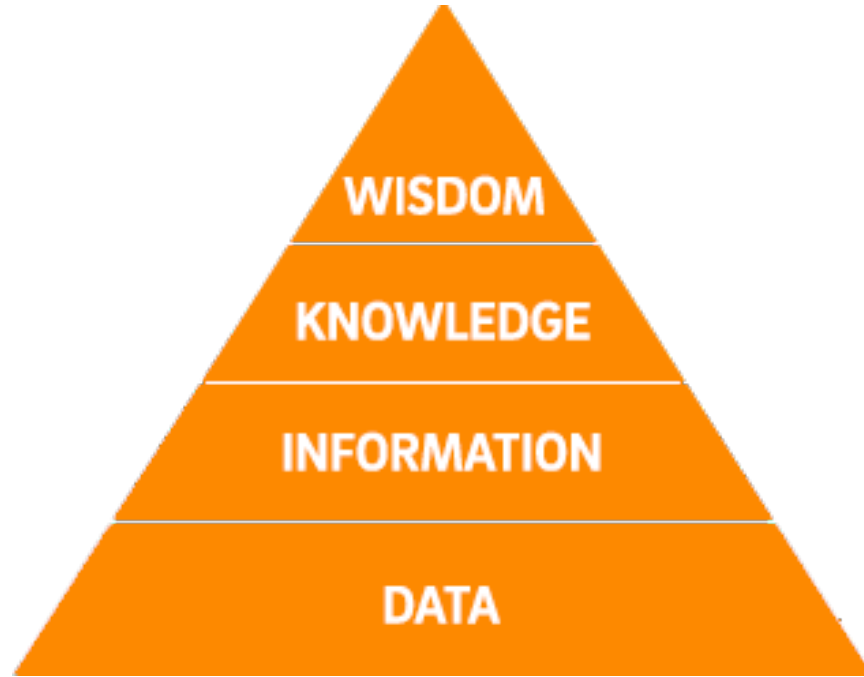


**So, what exactly
is data science?**

Think Like a Data Scientist, a book by Brian Godsey.

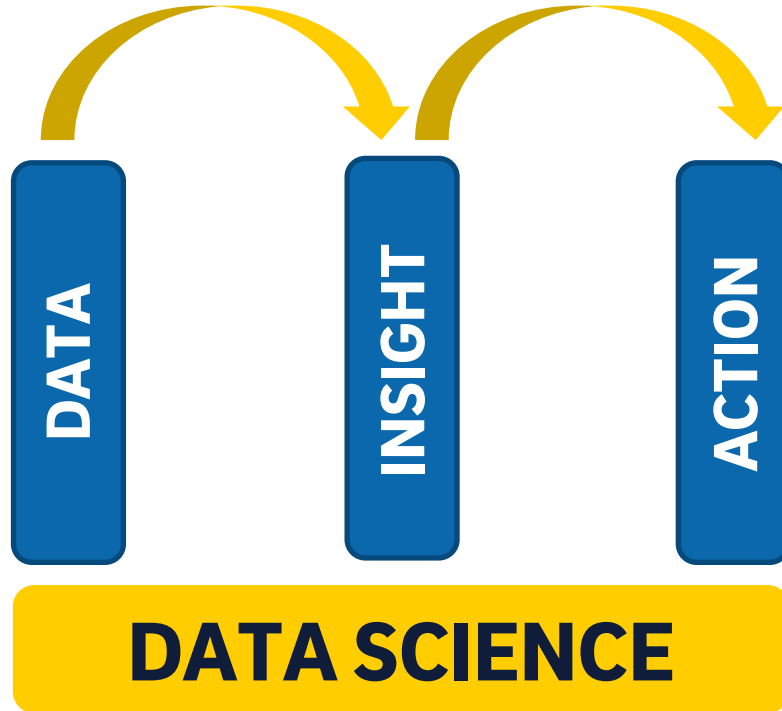
<https://www.manning.com/books/think-like-a-data-scientist>

What is Data?

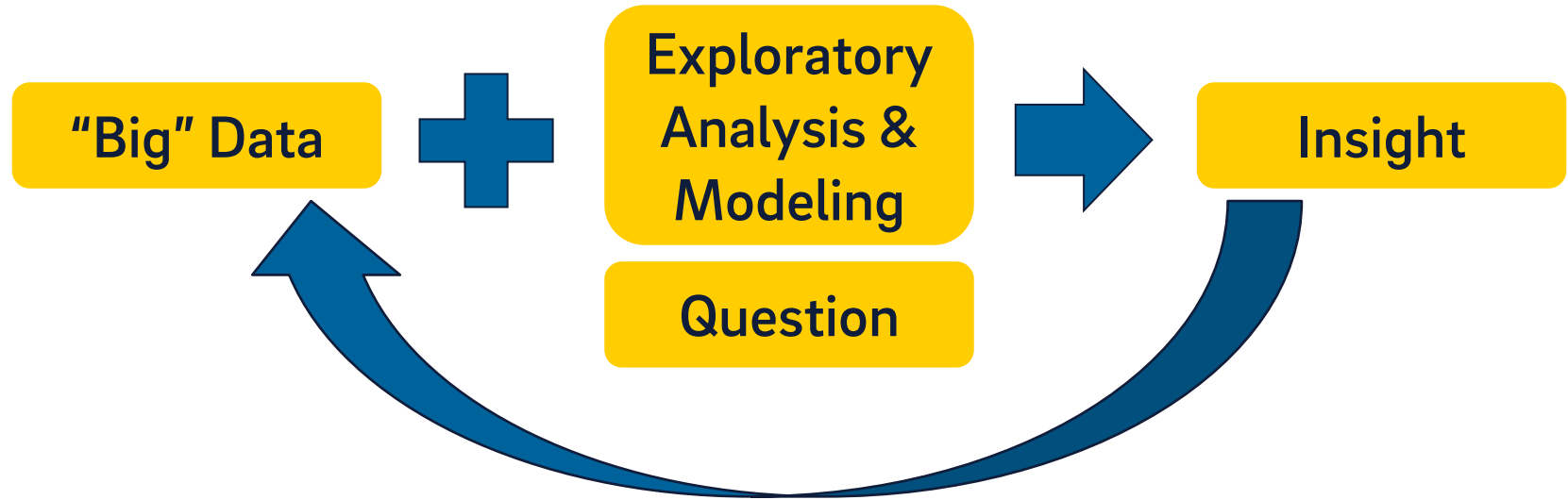


data: /'dādə, 'dādə/
facts and statistics collected
together for reference or analysis.

The Ultimate Goal of Data Science



Generating Insights from Data



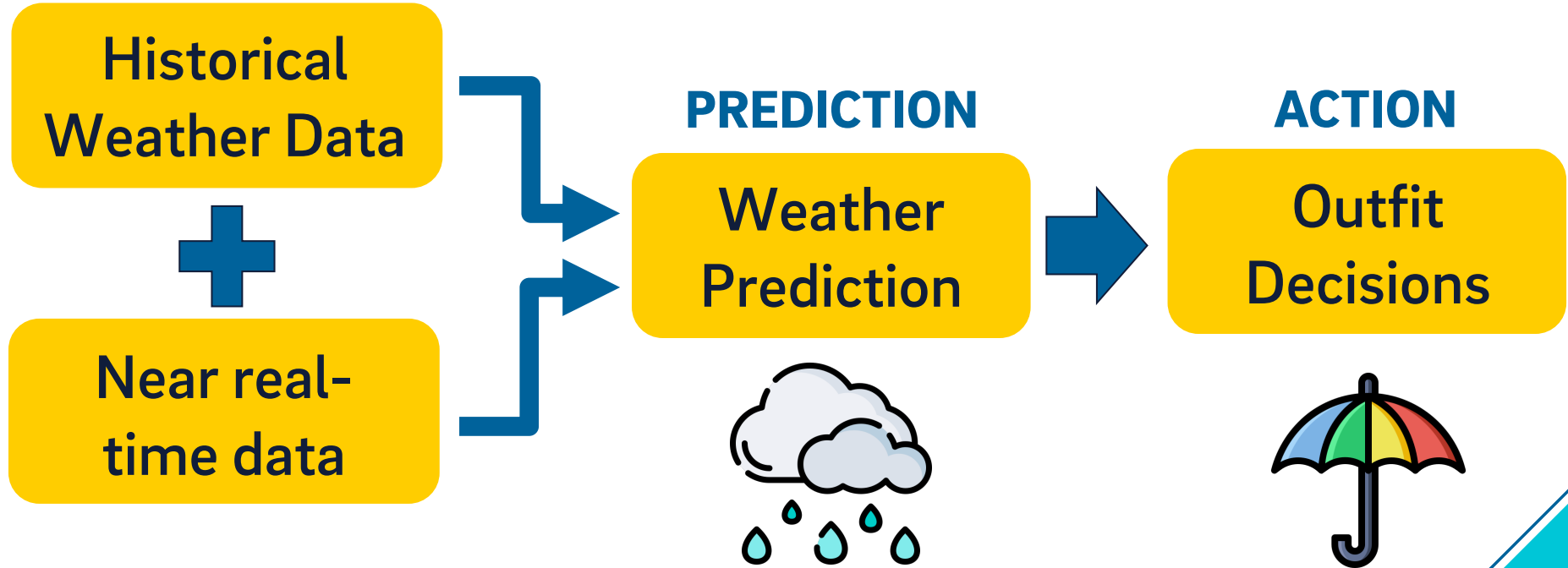
Insight = Data Product

Where is the science in data science?

**"... a product that
facilitates an end goal
through the use of
data"**

-- DJ Patil,
Former U.S. Chief Data Scientist
in Data Jujitsu

Example: Weather Forecast to Actions



**DATA
SCIENCE**

Systems & models

that help us to

understand data

in order to

gain insights &

make predictions

leading to action for impact.



**Data Science is
"IMPACT" Science**