

Data 311 - Lecture 0: What and Why?

What is data science? What do data scientists do?

prediction

| | |
|--------------------------|------------------|
| data analysis | machine learning |
| Classification | math |
| Cleaning/sanitizing data | Statistics |
| interpreting | answer questions |

"Studying & manipulating lots of information"

The process and/or study of extracting insights from data.

What is data ?

information

Sets of entities

(un)organized set of values

| <u>Disciplines</u> | <u>Tools</u> |
|--------------------|--------------|
| CS | <u>CS</u> |
| Stats | Stats |
| Business | Disciplines |
| Disciplines | |

"Data \neq information \neq understanding \neq wisdom"
-C. Hill

Data Science Lifecycle

