DATA 311: Fundamentals of Data Science

Lecture 1
Introduction, Logistics,
What is Data Science? What is Data?
Today

Logistics

• Course webpage/syllabus
• Assessment
• Policies
• Books
• Inclusive learning environment
• Feedback

Introduction

• About me
• About you (survey due tonight)
• What is data?
• What is data science?
• Course overview
About Me:

Scott Wehrwein

(call me this!)
Computer Vision: Familiar Examples

In-Camera Face Detection

Autonomous Driving

Text-Guided Image Generation

Image Search
Logistics

The syllabus is [on] the course webpage:

https://facultyweb.cs.wwu.edu/~wehrwes/courses/data311_23w

This link can also be found on the Syllabus page on Canvas.
Logistics Highlights

• Schedule Table
• Assessment
• Policies
• Books
• Discord
• Inclusive learning environment
• Flexibility
• Feedback
Syllabus Questions?
A couple plots

- A couple plots (whiteboard)
What is **Data Science?**

- Thoughts? (colab)
- My take
What do Data Scientists do?

- Thoughts? (colab)
- My take
What is data?

- Thoughts? (colab)
- Properties of data:
What is data?

• Thoughts?

• Properties of data:
  • structured/unstructured
  • numerical/categorical
  • big/small
Kinds of Structured Data

• Table / matrix
• Tree
• Graph
• Stream / time series