LOGO

BigData Engineering

1주차: Introduction

강의 : 신경섭

Introduction

- **Objectives**
  - Introduction to data science
  - Python for data analysis

- 이론 2시간, 실습 1시간

Evaluation Strategy

- Midterm: 30%
- Final: 40%
- Project/homework: 20%
- Attendance: 10%

Textbook

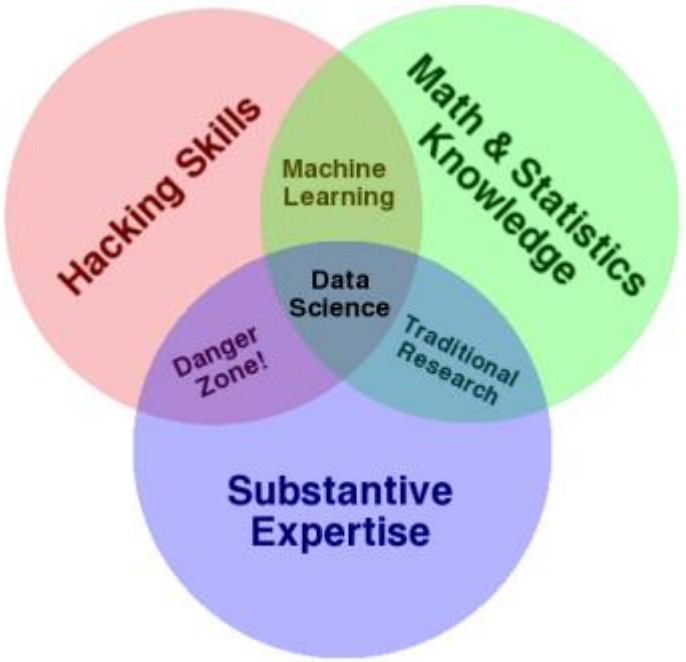
- Basically “handout”
- Refer “Python for Data Analysis”

Why Python?

- Easy to learn
- Full featured
  - Data acquisition, cleaning, databases, computing, and more
- Strong Data Science Libraries
  - SciPy Ecosystem

Data Science

- Drew Conway's perspective



Data Science

- David Donoho's perspective
  1. Data Exploration and Preparation
  2. Data Representation and Transformation
  3. Computing with Data
  4. Data Modeling
  5. Data Visualization and Presentation
  6. Science about Data Science

[ref] David Donoho, "50 years of data science"

Python Functions

- Basic python functions
- Refer video