

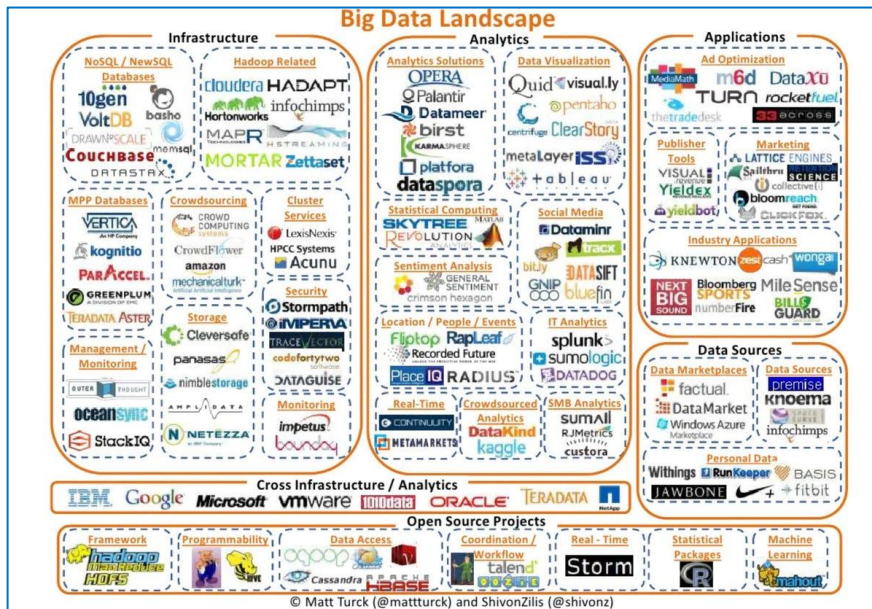


OPUS
College of Engineering

MARQUETTE UNIVERSITY

Electrical and Computer Engineering

COEN 4690/EECE 5690 Spring 2023
Developments in Computer Software:
Big data discovery through integration



COURSE FORMAT

- Hands-on Coding Lab and Projects with Real World Data
- Active Discussion and Q&A Forums in D2L led by Instructor
- Pre-requisites: Consent of Instructor

PROJECT EXAMPLES

- Data cleaning approaches for heterogeneous data
- Identifying uncertainty factors in unstructured data and discover methodology to address uncertainty
- Machine learning or computer vision techniques to integrate unstructured data

Or Propose Your Own Topic

- In this course, we will learn the process of **big data discovery**, types of data with focus on **unstructured and heterogeneous data**, data cleaning, schema design, and integration.
- Identify challenges associated with **heterogeneous and unstructured data**
- In the course project, students will **research, develop methodology, and implement data integration solutions** for real world applications (e.g., healthcare, earth science).

Course highlights

- Discover and learn challenges associated with big data!
- Can learn how to apply ML/DS to solve data challenges!
- Devolve project to solve real world problems!

Instructor:
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