



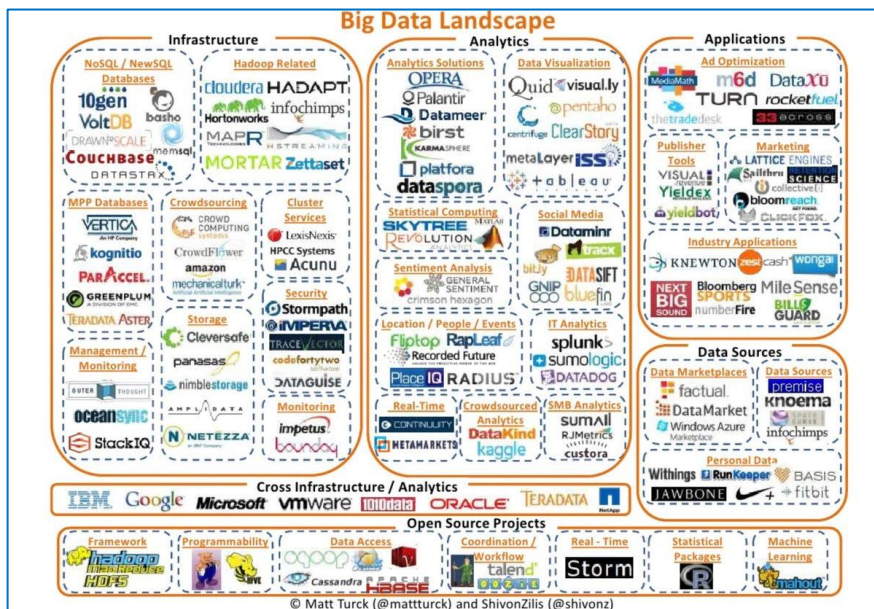
OPUS
College of Engineering

MARQUETTE UNIVERSITY

Electrical and Computer Engineering

COEN 4690/EECE 5690 Fall 2023

Developments in Computer Software: Database Design and Programming



COURSE FORMAT

- Learn Database design with real world case studies
- Hands-on Coding Lab and Projects with Real World Data
- Active Discussion and Q&A Forums in D2L led by 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 database design, Entity-Relationship mapping, and Database programming. Case studies that shows 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 database design and implementation!
- Devolve project to solve real world problems!



Instructor:

Dr. Priya Deshpande,
Electrical and Computer Engineering