In this course, we will learn the process of database design, entity-relationship mapping, and database programming. Case studies that show big data discovery, types of data with focus on unstructured and heterogeneous data, data cleaning, schema design, and integration. Hadoop framework with Hive and Pig. Map-reduce programming. 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!

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