CSC2700 Data Science & Analytics

Time and location:

TTH 4:30-5:50
1110 PATRICK TAYLOR

Instructors:

Mr. Hiren Deliwala, Amedisys Inc.
(hcdeliwala@gmail.com)

Prof. Jian Zhang, LSU Computer Science
(jz@lsu.edu)

Office hours: by appointment

Topics

- Database Fundamentals
- Data modeling
- SQL Basics
- Introduction to Data Warehousing
- Introduction to Business Intelligence
- Introduction to OLAP and Multidimensional Analysis
- Basic data & statistical analysis

Textbook:

No textbook is required.
The following books are recommended as references:

1. Data Modeling Made Simple: A Practical Guide for Business and IT Professionals, 2nd Edition by Steve Hoberman, Michael Blaha, Bill Inmon and Graeme Simsion
2. The Data Warehouse Lifecycle Toolkit by Ralph Kimball, Margy Ross, and Warren Thornthwaite
3. Data Science for
4. Business: What you need to know about data mining and data-analytic thinking by Provost, Foster and Fawcett, Tom (Jul 27, 2013)
5. Healthcare Data Analytics

Assignments & Grading

Group Assignments	30%
Homework (2-3 assignments)	20%
Mid Term	20%
Final	20%
Class Participation/In-Class Exercise	10%

Example Group Assignments
1) project to retrieve data from a few tables in database for analysis
2) project to use that data for analysis (produce charts and tables to show their interpretation about the data)