IDC 6940: Capstone in Data Science
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Course Preliminaries

  - Reading Material; Announcements; Suggestions
  - VISIT OFTEN!
- No regular class meetings
- Office ECS 254-B; Office Hours: By Appointment Only
- Phone: x-3748; Email: giri@cis.fiu.edu
- Variable credit course

Course Expectations

- Execute an **industry-relevant** or **research-oriented** project in Data Science
- The project must synthesize concepts from databases, analytics, visualization and management of data.
- The class will meet once every two weeks. Schedule will be announced in advance on the course website.
- Lectures will be used for:
  - Case histories and Visiting speakers
  - Monitoring progress in project and troubleshooting
  - Class presentations
Project Plan

- Individual or team effort.
  - Team Size? 2-3
- Projects need a faculty mentor to identify, plan, outline and execute
  - Mentor list? On the course webpage
- Projects are encouraged to have an external mentor
  - The external mentor may be a domain expert to provide guidance
- Projects will be evaluated by a 3-person committee
Project Steps

1. Select Faculty Mentor, Industry/Specialist Mentor & Project Team
2. Select Dataset & Identify Broad Questions
3. Flesh out more Details of the Project
4. Write a preliminary Proposal and make a Presentation
5. Meet regularly with mentors and Execute project
6. Discuss preliminary results and Refine project
7. Make final oral Presentation and submit final Project Report
Capstone Project (2 Semester) Plan

SEMESTER 1

- Pick a problem, data set, and formulate questions
- Download the data; plan tools; identify resources
- Submit Initial Proposal for Capstone
- Design algorithms, analyze, visualize & Interpret
- Present preliminary proposal & results
- Biweekly email progress report to course director

- Sep 11
- Sep 18
- Sep 18
- Oct & Nov
- Dec 2-5
Capstone Project (2 Semester) Plan

SEMESTER 2

- Design algorithms, analyze, visualize & Interpret
  
  All September

- Present progress report
  
  Oct 7

- Iterate, Improve, Refine
  
  All November

- Final Report
  
  Nov 30

- Final presentations
  
  Dec 2-5

- Biweekly email progress report to course director
  
  8/26/19
Capstone Project (1 Semester) Plan

- Pick a problem, data set, and formulate questions
- Download the data; plan tools; identify resources
- Submit Initial Proposal for Capstone
- Design algorithms, analyze, visualize & Interpret
- Present preliminary proposal & results
- Iterate, Improve, Refine
- Final Report
- Final presentations
- Biweekly email progress report to course director

- Sep 11
- Sep 18
- Sep 18
- October
- Oct 7
- All November
- Nov 30
- Dec 2-5
Course Evaluation

- Project Proposal: 20%
- Proposal Presentation: 5%
- Final Project Report: 30%
- Final Project Presentation: 15%
- Project Execution & Results: 30%