Instructor Name: Richard Leu

Course Name: Data Science in Industry with R

Course Description: This course will cover some practical data science tasks found in industry. Topics will include: connecting to databases, parsing XML and JSON data, data wrangling, building web applications with shiny, and making predictive models. Participants will be introduced to several commonly used R packages.

Day 1: Connecting to Data
- Query a SQL database
- Parsing JSON and XML files

Day 2: Data Wrangling
- Using dplyr package
- Working with date and date-time data
- String manipulation

Day 3: Web applications with Shiny
- Basic Visualizations
- Interactive visualizations

Day 4: Predictive Analytics and Machine Learning
- Using caret package for data splitting and model tuning
- Examples with some popular methods: random forest, svm, and neural networks