C743 – Course 7 "Data Analytics: Data Mining and Analytics 1" (3cr)

- **23.4hr/cr – 70.00hr (2wk) – 3 exams (22.50hr) – 25.25hr Video Lectures – 22.25hr Textbook**
- **Definition:** Data mining and exploratory data analysis. Text and web mining. Prepare data, familiarize with commercial data types for mining, use of statistical and data mining software (R, SAS, SPSS), and comparison and classification of data mining methods. Purposes, processes, and lifecycle of data mining.
- **Self-Prep Training**, 7.25hr (1 d) – $0 – 7.25hr Video – 5/26 : 5/26 (was actually back in January, but call it start day of this course)
  - DONE – 7.25 hr – LINK – Microsoft – Principles of Machine Learning – **Excellent**
- **Course Setup / Plan of Action / Installation:** 2.50hr (1 d) – 5/27 : 5/27
  - DONE – 2.50 hr – Prepare my Course Study Plan by reviewing all materials and listing out below as a plan of action
- **Course Material (Engage), Quizzes, Take Notes**, 15.25 hr (1 wk) – 14.50 hr Interactive TextBooks & Lab – 0.75 hr Video Lectures – 5/28 : 5/30
  - NOTE – Book Chapter Importance 3 & 5, then 6 & 14 & 15, then 1/2/4
  - NOTE – LINK – Lab sandbox data if I need it (to run on local copy of SAS)
  - DONE – 0.25 hr – LINK – Topic 1.1 Video
  - DONE – 4.00 hr – LINK – Topic 1.1 Read Chapter 1 + Labs
  - DONE – 0.25 hr – LINK – Topic 1.2 Video
  - DONE – 0.50 hr – LINK – Topic 1.2 Read Chapter 2
  - DONE – 0.25 hr – LINK – Topic 2.1 Video
  - DONE – 2.00 hr – LINK – Topic 2.1 Read Chapter 3.1-3.8 (too dense, skim read some sections, need to return and re-read)
  - DONE – 2.75 hr – LINK – Topic 2.2 Read Chapter 3.9-3.15 + Labs
  - DONE – 1.50 hr – LINK – Topic 3 Read Chapter 4.1-4.3
  - DONE – 1.50 hr – LINK – Topic 4 Read Chapter 5.2-5.5
  - DONE – 1.00 hr – LINK – Topic 5.1 Read Chapter 6.1-6.2
  - DONE – 0.50 hr – LINK – Topic 5.2 Read Chapter 14.4.1-14.4.4
  - DONE – 0.75 hr – LINK – Topic 5.3 Read Chapter 15.1-15.4
- **Supplemental Training to Course Materials**, 22.50hr (1 wk) – 17.25hr Video – 5.50hr Textbooks – 5/31 : 6/4
  TextBooks: 5.60hr
  - DONE – 0.25 hr – LINK – Popular statistical tests (supplement to Chapter 3) - Reading
  - DONE – 1.50 hr – LINK – Intro to Data Mining
  - DONE – 0.10 hr – LINK – Terms: "Ratio Scale" vs. "Interval Scale with a Natural Zero"
  - DONE – 3.75 hr – LINK – Data Mining Map
  Videos: 17.25 hr
  - DONE – 0.50 hr – LINK – Brandon Foltz Video (nix if already saw prior class)
  - DONE – 2.50 hr – LINK – Another Intro to Data Mining (36 videos @ 2x, skipped about 1/3 because similar to previous , etc.)
  - DONE – 1.50 hr – LINK – YouTube series that covers same topics as book (11 topics, 2.5hr)
  - DONE – 11.75 hr – LINK – Purchase Udemy course for $11.39 (6months ago) for scaffolding, highly recommended
  - DONE – 1.00 hr – LINK – Statistical Aspects of Data Mining (Google Tech Talks, Stanford University Course Concurrent) – cancelled out early, not too applicable for test
- **Final Exam + Prep**, 22.50hr (1 wk) – 6/4 : 6/10
  Test Prep, Flashcards – 7.50 hr
  - DONE – 0.50 hr – LINK – Bayes Theorem Review
  - DONE – 3.25 hr – PDF Flashcards from Course Kick-Off Emails
  - CANCELLED – 0.50 hr – LINK – Flashcards X – on cram.com (search for "C743") … too many bad ones, worse to memorize something conflicting so stop studying from broad search results…too risky
  - DONE – 0.50 hr – LINK – More Flashcards 1 – cram.com
  - DONE – 0.75 hr – LINK – More Flashcards 2 – cram.com
  - DONE – 0.50 hr – LINK – More Flashcards 3 (121)
  - DONE – 1.50 hr – LINK – More Flashcards 4 (123) DM Terminology
  Study Course Work – Re-Read – 5.50 hr
  - DONE – 0.25 hr – Re-read my One Notes for course
  - DONE – 1.00 hr – Study files/charts in "Course Files"
  - DONE – 0.25 hr – Study Section 5.4 "Comparison for R, SAS, and SPSS"
  - DONE – 0.25 hr – Study Section 5.5 "How to Reduce Processing Time"
  - DONE – 2.75 hr – LINK – Skim-read text again, Book Chapter Importance 3 & 5, then 6 & 14 & 15, then 1/2/4
  - DONE – 1.00 hr – LINK – Re-watch all the PPT videos at the beginning of each chapter…these are the best flashcards for the test
  Practice Tests + Re-Studying – 6.25 hr
  - DONE – 2.50 hr – Practice Test PDF from Class Kick-Off Email

- DONE – 1.50 hr – Pre-Test #1 – Take test + review all answers
- DONE – 1.00 hr – Pre-Test #2 – Take test + review all answers
- DONE – 1.25 hr – Review Green highlighted items above one more time

Do the Final – 3.25 hr

- DONE – 0.75 hr – Setup Laptop, Pass Config Test, Schedule Exam, Wait, Troubleshoot, etc.
- DONE – 2.00 hr – Final Exam (all the effort above was for this one make or break test)
- DONE – 0.50 hr – Wrap up the course (these notes, etc.)

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