CAP 5768 – Intro to Data Science

Exam - "HOT or NOT"

HOT

- **Book 1 (VanderPlas)**
    - Chapter 5 (up to, and including, "Feature Engineering")

- **Book 2 (Downey)**
    - Chapter 1, especially concepts and terminology (see *Glossary* at the end of the chapter)
    - Chapters 2-4, especially concepts and terminology (see *Glossary* at the end of each chapter) plus items marked as hot in the Slides for Lecture 3 (Statistics: part 1)
    - Chapter 5, especially concepts and terminology (see *Glossary* at the end of each chapter) plus items marked as hot in the Slides for Lecture 3 (Statistics: part 2)
    - Chapter 6, especially concepts and terminology (see *Glossary* at the end of each chapter) plus items marked as hot in the Slides for Lecture 3 (Statistics: part 2)
    - Chapter 7, especially concepts and terminology (see *Glossary* at the end of each chapter) plus items marked as hot in the Slides for Lecture 3 (Statistics: part 1)
    - Chapter 8, especially concepts and terminology (see *Glossary* at the end of each chapter) plus items marked as hot in the Slides for Lecture 3 (Statistics: part 2)
    - Chapter 9, especially concepts and terminology (see *Glossary* at the end of each chapter) plus items marked as hot in the Slides for Lecture 4 (Hypothesis Testing)

- **Slides**
    - "Lecture 0" (Data Science: the big picture): slides 8-11, 17, 19, and 21.
    - Lecture 3 (Statistics: part 1): slides 3-4, 8, 11, 34-36, and 41-46.
    - Lecture 3 (Statistics: part 2): slides 4-9, 15, 19-21, 26-27, 29, 33-40, and 42-56.
    - Lecture 4 (Hypothesis Testing): slides 4-7, and 9-18.

NOT

- **Book 1 (VanderPlas)**
    - Chapters 1-4
    - Chapter 5 (beyond the end of the "Feature Engineering" section)
- **Book 2 (Downey)**
    - Anything that is specific to the *thinkstats2* Python package created by the author
    - Chapters 10, 11, 12, 13, and 14
- **Slides**
    - Lecture 1
    - Lecture 2
    - All slides not explicitly included in the "HOT" list above
- Any paper, e-book, external reference, etc. not explicitly mentioned in the "HOT" list above.