

What do you want to learn?







Overview

Week 1

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Grades

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Discussion Forums

Messages

Course Info



Week 1

Statistical Inference

Week 1

Discuss and ask questions about Week 1.

657 threads · Last post a month ago

Week 1: Probability & Expected Values







This week, we'll focus on the fundamentals including probability, random variables, expectations and more.

Module 1: Introduction

▶ Video: Introductory video ^{7 min}

Go to forum

- Reading: Welcome to Statistical Inference 10 min
- Reading: Some introductory comments 10 min
- Reading: Pre-Course Survey 10 min
- Reading: Syllabus 10 min
- Reading: Course Book: Statistical Inference for Data Science 10 min
- Reading: Data Science Specialization Community Site 10 min
- Reading: Homework Problems 10 min

Module 2: Probability

- Reading: Probability 10 min
- ▶ Video: 02 01 Introduction to probability 6 min
- ▶ Video: 02 02 Probability mass functions 7 min
- ▶ Video: 02 03 Probability density functions 13 min

Module 3: Conditional Probability

- Reading: Conditional probability 10 min
- ▶ Video: 03 01 Conditional Probability 3 min
- ▶ Video: 03 02 Bayes' rule 7 min
- ▶ Video: 03 03 Independence 3 min

Module 4: Expected Values

- Reading: Expected values 10 min
- ▶ Video: 04 01 Expected values 5 min
- ▶ Video: 04 02 Expected values, simple examples 2 min
- ▶ Video: 04 03 Expected values for PDFs 7 min

Practical R Exercises in swirl



