

COGS9-Intro to Data Science

Spring24 - Prof. Kyle Shannon

Discussion Section A01

Week 8

Teaching Assistant (TA): Abdullah

Instructional Assistant (IA): Kyra

Where to find all material

COGS 9

Home

Syllabus

Readings

Assignments

Exam

Final Project

Office Hours

Contact Us

Search COGS 9

UCSD PodcastGradescope

Introduction to Data Science

COGS 9 - UC San Diego - Prof. Kyle Shannon

Spring 2024SOLIS 107TU & TH 5:00-6:20PM

Welcome 🙌

We are all very excited that you decided to join us on this whirlwind tour of data science. All relevant info, e.g. due dates, assignment links, etc. are found on this website. We look forward to teaching and working with all of you and hope to meet you in office hours. Check out the **Getting Started** section so you can hit the ground running when class starts!

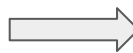
NOTE

Week one I try to take as many students from the **waitlist** as I can, please email cogsadvising@ucsd.edu with further questions.

Discussion Sections

	Day	Time	Location	Staff	Materials
A01	Wed	12:00-12:50PM	CENTR 222	TA: Abdullah IAs: Kyra	View
A02	Wed	1:00-1:50PM	CENTR 222	TA: Kaushik IAs: Seshu, Vicky	View
A03	Wed	2:00-2:50PM	CENTR 222	TA: Matthew IAs: Jessica, Wenhua	View
A04	Wed	3:00-3:50PM	CENTR 222	TA: Vineeth IAs: Jiesen	View
A05	Wed	4:00-4:50PM	CENTR 222	TA: Vineeth IAs: Harshita	View

This site uses Just the Docs, a



cogs9_TA

Public

main

1 Branch

0 Tags

Go to file

AbdullahAshfaq

Added week3 material

week2

Added week2 material

week3

Added week3 material

README.md

Update README.md

README

Cogs 9 Discussions-Intro to Data Science

Abdullah's discussion section material for COGS9 course

Upcoming Deadlines

Week 8

Mon, May 20	ASSG	Assignment 2 due
Tue, May 21	LECT	Text & Geospatial Analysis
Thu, May 23	LECT	Giving a Data Science Talk

Week 9

Mon, May 27	ASSG	Assignment 3 due
Tue, May 28	GLCT	Guest Lec 1. (prerecorded not in-class)
Thu, May 30	GLCT	Guest Lec 2. (prerecorded not in-class)
Fri, May 31	QUIZ	Reading Quiz 5 due

Week 10

Tue, Jun 04	LECT	Algorithms & Computability
Thu, Jun 06	LECT	Future of Data Sci & Jobs
Thu, Jun 06	PROJ	Final Project Part 2 due

Discussion Sections Outline: Mostly Hands-on

- | |
|--|
| ● Week 2: Introductions, Making teams, Reading 1 (Part 1) |
| ● Week 3: Reading 1 (Part 2), Python Basics with Jupyter Notebook |
| ● Week 4: Reading 2, Getting data and wrangling it using Pandas |
| ● Week 5: Reading 3, Assignment 1, Basics of SQL and Visualizations |
| ● Week 6: Reading 4, Final Project Part 1 reviews/discussions |
| ● Week 7: Reading 4, Assignment 2, Data Visualization and EDA demo |
| ● Week 8: Assignment 3, Machine Learning demo |
| ● Week 9: Reading 5, Closing thoughts |
| ● Week 10: Final Project Part 2 reviews/discussions |

Today's Outline

- Questions about part 1 grading
- Assignment 3 Topics
- ML Demo

Participation = Extra Credit 😊

Any questions about Project Part 1 grading?

Assignment 3 Topics

Sampling and Non-sampling errors

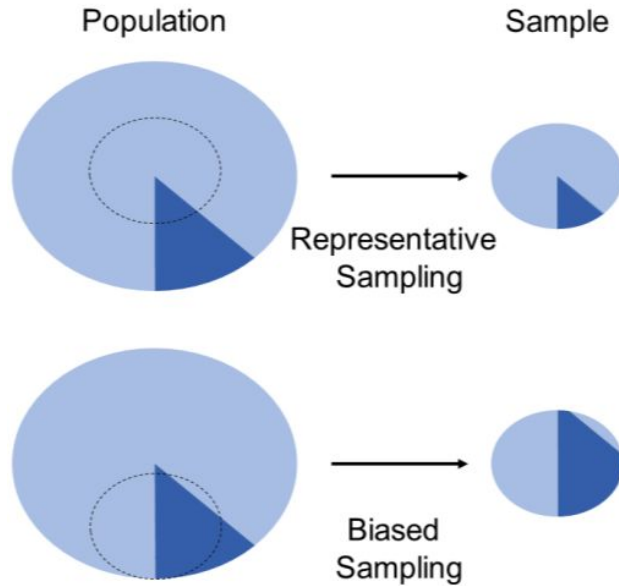


Table summarising types of error.

Potential sources of error in estimating a population distribution using a sample			
Sampling error	Non-sampling error		
Because the sample is not the whole population	Poor sampling method	Questionnaire or measurement error	Behavioural effects

Machine Learning Demo