

PCA, Homework, Quiz

What type of assignment are you working on?

ICA, Semester Project

1. Find the assignment in d2l
2. Use the built-in editor in d2l (CodeGrade) to edit and submit the assignment
3. For Homework and Quiz, you may be able to upload a completed ipynb into CodeGrade

1. Download the assignment/template from course website (cmse.msu.edu/cmse201)
2. Use your local Jupyter installation to complete the assignment
3. Upload completed ipynb file to d2l in the appropriate submission folder

Table of Contents › Pre-class Assignments › PCA 04

PCA 04

FS25-CMSE-201-001 - Computational Modeling and Data Analysis I › PCA 04

Available in 7 hours - Due in 5 days - Grades not published


Latest submission

Create editor from...

- Template
- Latest submission
- Resume

Course feedback

Rubric



CMSE

Course Materials

- Important Course information

Day 01

- Day 1 In-Class Assignment: Introductions and Sorting Algorithms

Day 02

- Day 2 Pre-class Assignment: Intro to Python
- Day 2 In-class Assignment: Order of Magnitude Modeling**

Day 03

- Day 3 Pre-Class Assignment: 1 lecture

Day 2 In-class Assignment: Order of Magnitude Modeling

☒ Put your name here

☒ Put your group member names here

☒ Put your group member names here

How many mice would it take to fill up this classroom?

(a.k.a., making order-of-magnitude estimates for fun and profit!)

Learning Goals

Why are we asking you to do this?

One type of modeling is called "order-of-magnitude estimation" or "order-of-magnitude modeling." A physicist would call this a "Fermi Problem" after Enrico Fermi, a physicist who participated in the Manhattan

Day 2 In-class Assignment: Order of Magnitude Modeling

☒ Put your name here

☒ Put your group member names here

How many mice would it take to fill up this classroom?

Learning Goals

The Problem

Part 1

Use a virtual whiteboard app like Office Whiteboard or the physical whiteboards in the classroom to write out your ideas to ensure that everyone is on the same page and allow your instructors to see your progress.

- 1.1 Defining Your Model
- 1.2 Coding Your Model
- 1.3 Exploring Model Results

☒ STOP AND ASK YOUR INSTRUCTOR TO COME OVER

Part 2

- 2.1 Pick a Second Model
- 2.2 Describe the Model
- 2.3 Coding the Model

A screenshot of a Jupyter Notebook interface. The top navigation bar shows a breadcrumb trail: "Table of Contents" > "Pre-class Assignments" > "PCA 04". The main title "PCA 04" is on the left, and navigation icons are on the right. The notebook's title bar reads "Day_04_PreClass_DataAlgorithmicBias-STUDENT.ipynb". The toolbar includes buttons for "Cell", "Undo", "Redo", "Run", "Run all", and "Code". The notebook content area has a dark background and contains the following text: "Assignment wrap-up", "Please fill out the form that appears when you run the code below. **You must completely fill this out in order to receive credit for the assignment!**", a link "Pre-class survey", "Congratulations, you're done!", "Submit this assignment by uploading it to the course Desire2Learn web page. Go to the 'Pre-class assignments' folder, find the appropriate dropbox link, and upload it there.", "See you in class!", and a copyright notice "Copyright © 2023, Department of Computational Mathematics, Science and Engineering at Michigan State University, All rights reserved." The right sidebar shows the "Code Editor" tab, "Editor Sessions", and a "Files" panel with "Root" and "Day_04_PreClass_..." folders. At the bottom right, a red-bordered box highlights the "Run" and "Hand in" buttons.

Course HomeContentCourse Tools ▾Assessments ▾Communication ▾Help

Table of Contents > In-class Assignments > ICA 04

ICA 04 ▾

<>

Instructions

Submissions

No submissions yet. Drag and drop to upload your assignment below.

Drop files here, or click below!

Upload

Record Audio

Choose Existing

You can upload files up to a maximum of 2 GB.

Comments

Paragraph ▾**B***I*U[^]~~/~~

≡ ▾☰ ▾▶⏮🔗Σ ▾📊 ▾+ ▾Lato (Recomm... ▾19px (... ▾🖨️🛑☰⋮🔄