

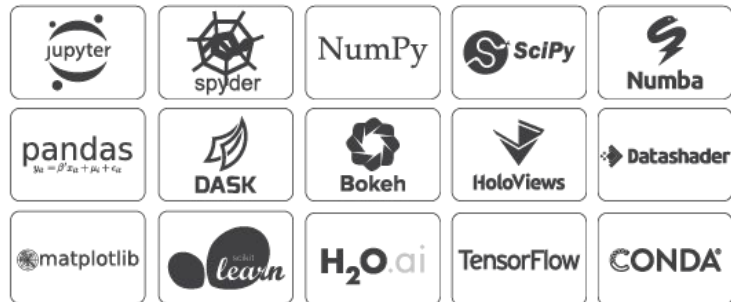
# Welcome to INFO 1998!

*First Step: Get the required software*

# 1.



Anaconda



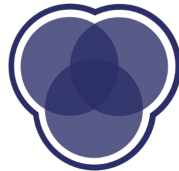
<https://www.anaconda.com/distribution/>

# 2.

Open **Terminal (MacOS) / Command Prompt (Windows)**,  
**Type and enter:** jupyter notebook

# Lecture 1: Introduction

**INFO 1998: Introduction to Machine Learning**



**CDS Education**

# Agenda

1. **Meet the Team:** Who are we?
2. **Course Syllabus:** What will we learn?
3. **Introduction:** What is Data Science / Machine Learning?
4. **Course Logistics:** How will we learn?
5. **Getting Started:** Software & Demo

# Who are we?

## Cornell Data Science

### Project Team

Data Science

Machine Learning Engineering

Data Engineering

Quantitative Finance

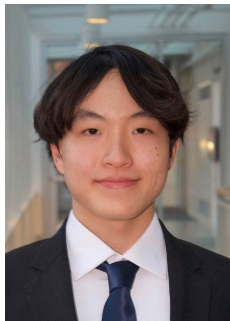
### Community Outreach

INFO 1998

Tech Talks

# Course Manager

*Who you'll have to bear with*



**Boss Lertdamrongwong**

CS '28

rl896@cornell.edu

*DS Subteam*



**Mericel Tao**

CS '26

mst223@cornell.edu

*DS Subteam*

# Course Staff

*Backbone of INFO 1998*

- Boss Lertdamrongwong
- Mericel Tao
- Audrey Zhang (DS '29)
- Henry Ji (QF '28)
- Monisha Bommur (DE '29)
- Rahi Dasgupta (MLE '27)
- Rohan Anne (DS '29)

# Getting to know your classmates



Project Team Website: [cornelldata.science](https://cornelldata.science)

Course Website: [cornelldatascience.github.io/info1998/](https://cornelldatascience.github.io/info1998/)

**Spend 5 minutes going over the following:**

- Name
- Major
- Why you are taking this course
- If you were a baseball player, what would your walk up song be?



# What Do You Get Out of This?

*What you will have accomplished by the end of this?*

# F•R•I•E•N•D•S

## Things I do when I have to learn.



- Learn
- Think about learning
- Find a million excuses why I don't have the time to learn

SCIENCE or PEOPLE





# **What is Data Science?**

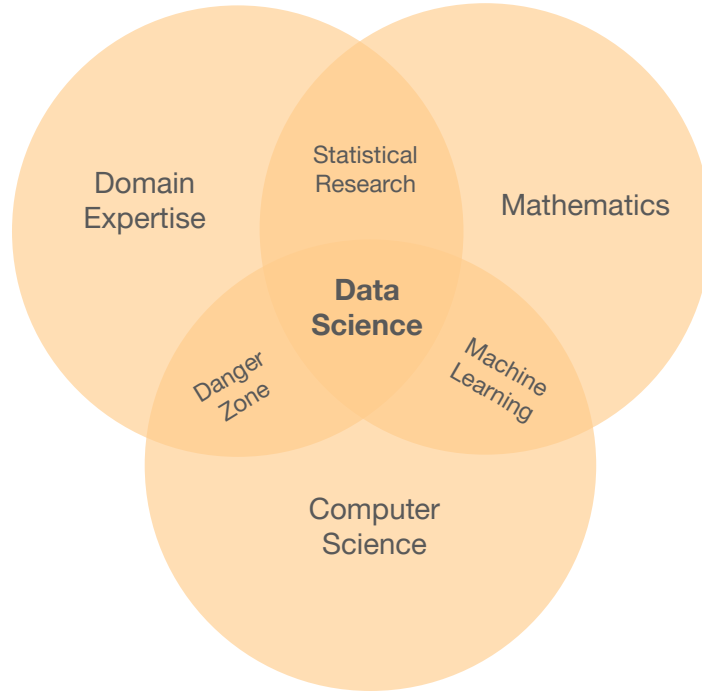
# What is Data Science?

“By "Data Science", we mean almost everything that has something to do with data: Collecting, analyzing, modeling..... yet the most important part is its applications --- all sorts of applications.”

*Journal of Data Science*

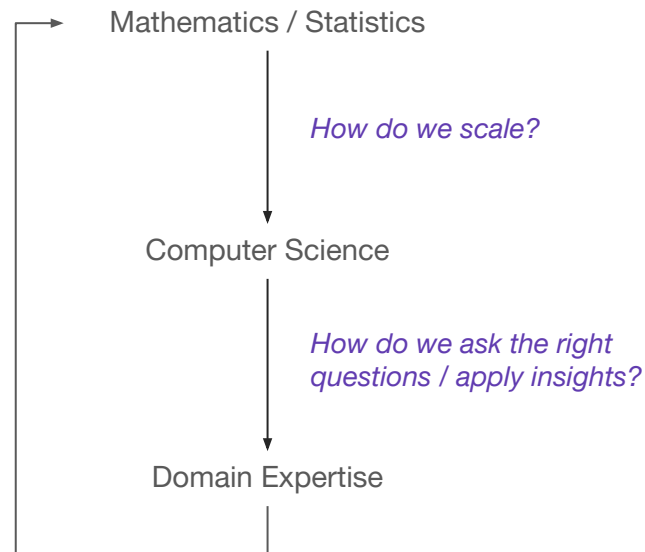
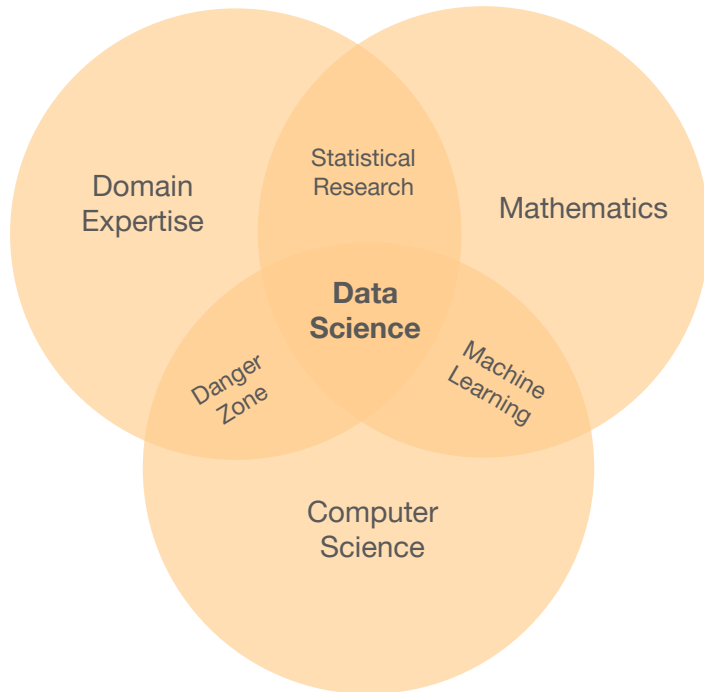
# What is Data Science?

*Conway's Data Science Venn Diagram*



# What is Data Science?

Conway's Data Science Venn Diagram



**Data Science  $\neq$  Machine Learning**

# Applications of Data Science

*We'll be back to this slide!*

## Predictive

Stock Prices

Netflix Recommendations

## Preventive

Medical Diagnosis

Social Impact Analytics

## Real-Time

Digital Advertising

Autonomous Vehicles

# Course Objectives and Syllabus

*What you should aim to understand by the end of the course*

OBJECTIVES	SYLLABUS
Manipulating Data	Data Manipulation / Visualization <i>Lectures 1-3</i>
Communicating Data	
Understanding of ML as a concept	Fundamentals of Machine Learning <i>Lectures 4-5</i>
Intuitive understanding of ML models	
Implementation of ML models	Supervised Learning <i>Lectures 6-8</i>
Comfort Using Python	
Applications in Industry	Unsupervised Learning <i>Lecture 9</i>
Project Experience	

**Syllabus is posted on our website.**

# FAQs

*Is this class a good fit for you?*

## 1) Will I become a Data Scientist / Machine Learning Engineer?

*No, you will not. The course covers a breadth of concepts, helps build intuitive understanding of some models, but does not dive too deep into the mathematical complexities (since this is a 1000-level course). However, feel free to come to office hours if you're interested in learning more.*

## 2) How much time commitment is this course?

*Completely up to you. It's not hard to pass the class if all you want is basic street-fighting machine learning skills, which is fine too – that'll require less than 1 hour per week. If you want to put some more time in and come up with a creative and cool data science project that you can be proud of, that will take more time but is very rewarding!*

## 3) I have no background in CS / Stats – am I underprepared?

*Not at all! We'll teach you everything you need to know, but you may have to spend a little more time getting comfortable with Python. A number of non-STEM graduate students have taken this class in the past to understand basics that they could apply to their research. A large number of freshmen also take the course because they're excited to learn more about the field. TL;DR: If you're interested, give it a shot!*



# Course Logistics

*How is the class structured (and graded)?*

**9 assignments (~1 assignment per lecture)**

*We drop your lowest score!*

**55%**

**Project**

*2-3 students*

**40%**

**Attendance**

*What you are doing right now 😊*

**5%**

**Passing Grade: 70%**

# Project Details

*More details to come on the final project rubric and our website*

## Pre-Processing and Manipulation

*Any necessary cleaning and manipulation of the dataset*

## Visualizations

*At least two different visualizations. Visualizations are clearly visible, clean, well-labeled, and serve a clear purpose for your question(s).*

## Models

*Machine learning models that are chosen wisely, implemented correctly, and give meaningful results. For example, you won't get points if you run a linear regression for a classification problem. If applicable, the results of the models are compared.*

**Feel free to stay after class or post on Ed to form groups!**

# Enrollment

*Let's get this credit*



**Fill out by Friday to get a pin.  
Also counts for today's attendance!**

# Enrollment

*Let's get this credit*

1



Fill out by Friday to get a pin.

<https://forms.gle/R4jb2SHcxmtY349N9>

Enroll in Ed Discussion

<https://edstem.org/us/join/355nCu>

You will be added to CMS over the  
weekend (after enrollment)

# Enrollment

*Let's get this credit*

1

Fill out by Friday to get a pin.  
<https://forms.gle/R4jb2SHcxmtY349N9>

2

Enroll in Ed Discussion  
<https://edstem.org/us/join/355nCu>  
You will be added to CMS  
over the weekend

3

Enroll through  
Student Center after  
obtaining pins

# Enrollment on Student Center

Let's get this credit

- Get enrollment pin via email (sometime next week)
- Add INFO 1998 Section 602 (class # ...) under Rene Kizilcec
- Please try to enroll as soon as possible when you receive your pin

INFO 1998 - First-year Team Projects

## Class Preferences

INFO 1998-602      Project      ● Open

**Topic** Intro to Machine Learnin

**Session** Project Session Full

**Career** Undergraduate

## Enrollment Information

- Instructor Consent Required to enroll in this class
- Community-Engaged Learning
- Undergraduate Research

Wait List ☐ Wait list if class is full

Permission Nbr

Grading

Units 1.00

pin

1 credit  
pass/fail

Cancel

Next

Section	Component	Days & Times	Room	Instructor	Start/End Date
602	Project	We 7:30PM - 8:45PM	To Be Assigned	Rene Kizilcec	01/20/2026 - 05/05/2026

# Where can I find course information?

**Asking Questions and Course Announcements:** Ed Discussion (avoid email if possible)

<https://edstem.org/us/join/355nCu>

**Assignment File & Submitting Assignments:** CMS

<https://cmsx.cs.cornell.edu/>

**Office Hours Schedule & Assignment Files:** Course Website

<https://cornelldatascience.github.io/info1998/>

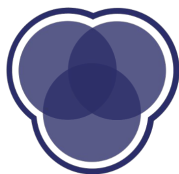
# Jupyter Notebook Demo

*Feel free to follow along in Jupyter Notebook  
(linked on website)*



## Next Steps

- **Installation:** Seek help at Office Hours!
- **Assignment 1:** Due at 11:59pm on Friday, February 20<sup>th</sup>, 2026 on **CMSx**.  
.ipynb file is on the website!
- **Enroll on Student Center:** Will receive a pin via Cornell email sometime next week
- **Next Lecture:** Data Manipulation



**CDS Education**