

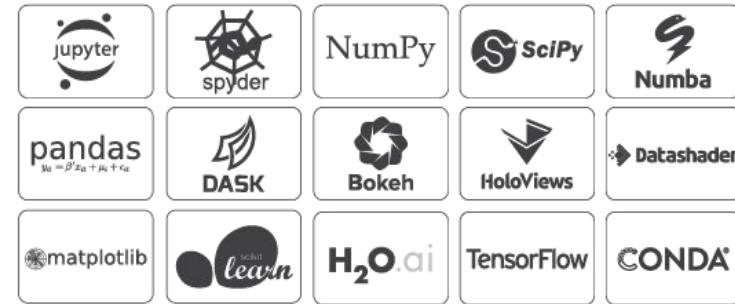
# Welcome to INFO 1998!

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

[r1896@cornell.edu](mailto:r1896@cornell.edu)

*DS Subteam*



## Mericel Tao

CS '26

[mst223@cornell.edu](mailto:mst223@cornell.edu)

*DS Subteam*

# Course Staff

*Backbone of INFO 1998*

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

# Getting to know your classmates



Project Team Website: [cornelldata.science](http://cornelldata.science)  
Course Website: [cornelldatascience.github.io/info1998/](http://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?

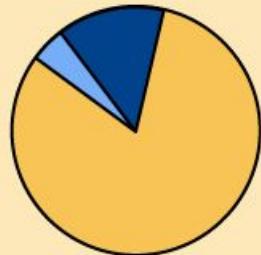


# What Do You Get Out of This?

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

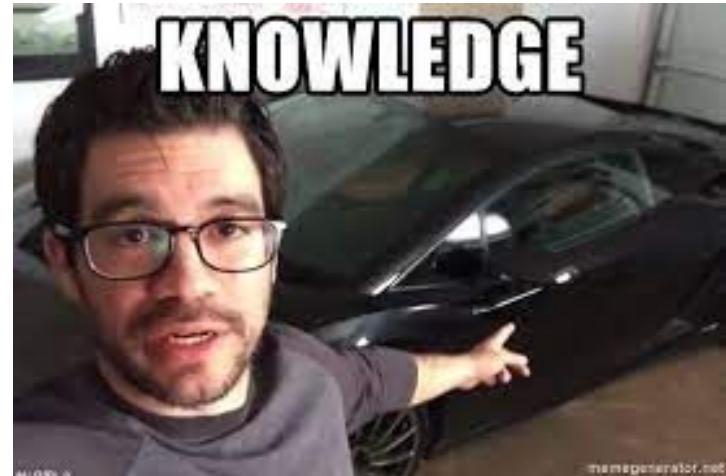
F•R•I•E•N•D•S

**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 of PEOPLE



# **What is Data Science?**

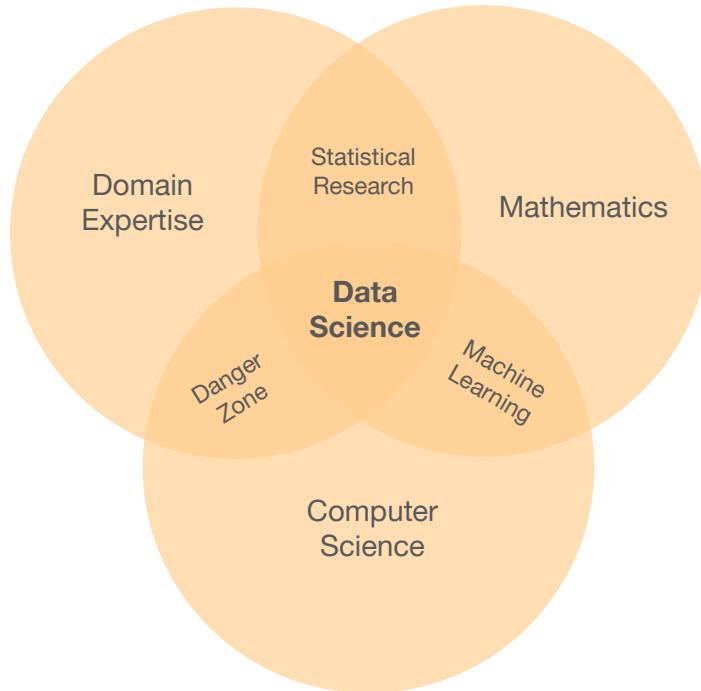
# What is Data Science?

“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*

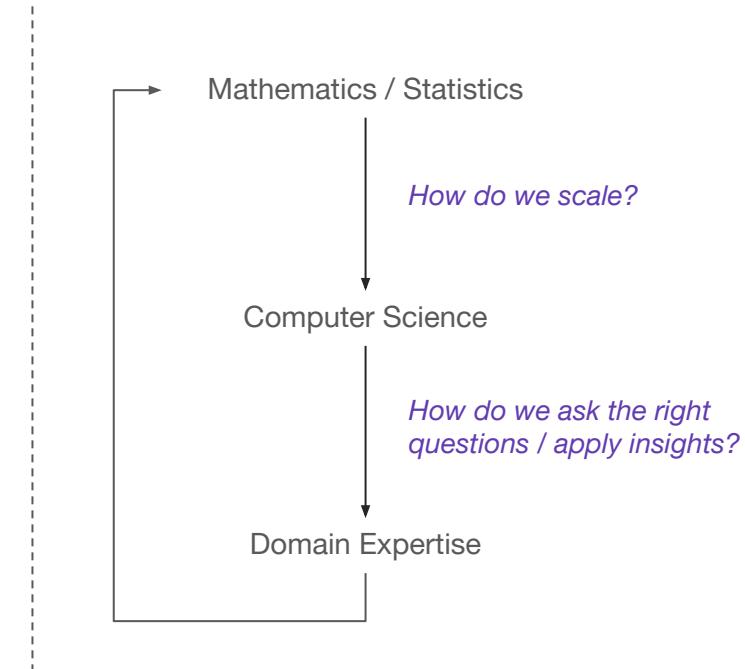
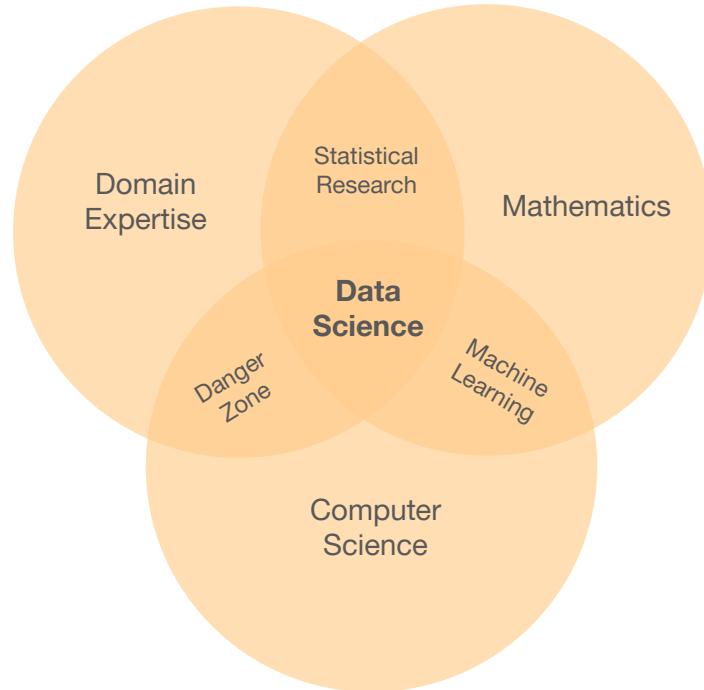
# What is Data Science?

Conway's Data Science Venn Diagram



# What is Data Science?

Conway's Data Science Venn Diagram



**Data Science ≠ 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)**

**55%**

*We drop your lowest score!*

**Project**

**40%**

*2-3 students*

**Attendance**

**5%**

*What you are doing right now 😊*

**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

2

3

Fill out by Friday to get a pin.

<https://forms.gle/R4jb2SHcxmtY349N9>

Enroll in Ed Discussion

[https://edstem.org  
/us/join/355nCu](https://edstem.org/us/join/355nCu)

You will be added to CMS  
over the weekend

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	<input checked="" type="radio"/> Open			
Topic	Intro to Machine Learning				
Session	Project Session Full				
Career	Undergraduate				
<b>Enrollment Information</b>					
<ul style="list-style-type: none"><li>Instructor Consent Required to enroll in this class</li><li>Community-Engaged Learning</li><li>Undergraduate Research</li></ul>					
<p>Wait List <input type="checkbox"/> Wait list if class is full</p> <p>Permission Nbr <input type="text"/></p> <p>Grading Sat - Unsat Exclusively</p> <p>Units 1.00</p>					
<p><b>Cancel</b> <b>Next</b></p>					
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

**pin**

**1 credit  
pass/fail**

# 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**