

[COGS 9] Discussion Introduction



Vineeth Chelur

- 3 years of research experience as an undergrad
Predicting the binding site of a protein from its sequence using Deep Learning (Research Data Scientist)
- 2 years of industry work experience during the pandemic
Worked at a fintech startup building banking applications to handle card transactions (Software Engineer)
- 3 months industry research to find protein interaction interfaces for a large set of proteins (Data Science Intern)
- Pursuing a Masters in Computer Science now :)
With a specialization in AI/ML
- Love traveling, hiking, and just about any activity in Nature
- Enjoy table tennis, lyrical rap, and **trying** to get fit :')



Hi! My name is Harshi

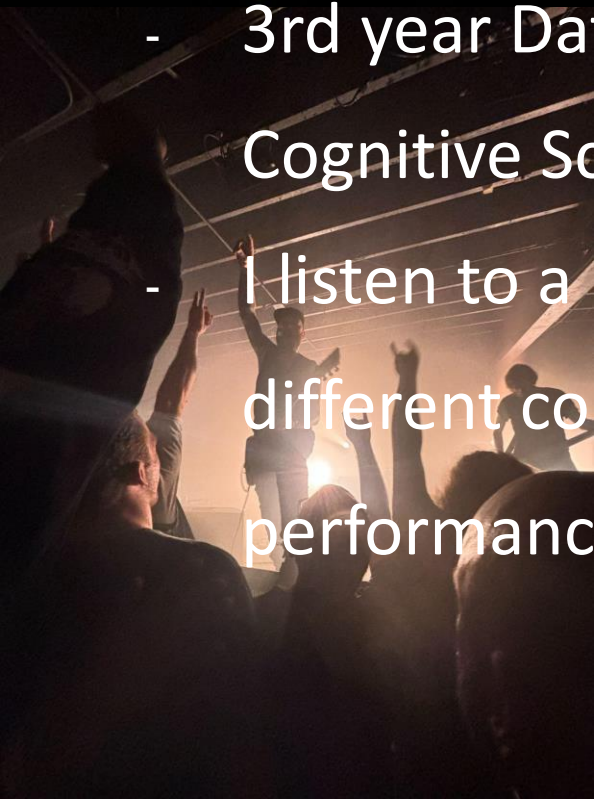
- I've been a tutor 6 times 🧑🏫 :
 - DSC 10, 40A, and 80
- First time tutoring COGS 9 📊
- Bioinformatics major 💻
- Data science minor 📈
- Currently researching COVID mRNA vaccines at the School of Medicine 🧑🏫
- Heading to grad school in the fall 🍁
 - Moving to Boston!
- Fun Fact: Haven't been to the beach yet!
 - 🧒♂️🏖️👎👎👎



- My name is Jiesen Zhang (Jason is also ok)

- 3rd year Data Science & Cognitive Science Student

- I listen to a lot of music and go to different concert/livehouse performances.



Course Logistics

- Course link: [Home - COGS 9 \(kshannon-ucsd.github.io\)](https://kshannon-ucsd.github.io) (Everything you need is available)
- Discussion section attendance is optional
- Sections are not recorded; however, the slides will be uploaded to GitHub and the link to the slides is provided in the course link
- Quizzes, assignments, and exams are to be done individually
- Final project (split into 2 parts) is to be done as a group
- Please try and reach out to us on Piazza or email (Faster response on Piazza) if you have any issues/concerns about your team or the course
- Make good utilization of office hours! You will have to meet with your assigned IA at least once a week for 5 minutes and meet with your TA at least twice in the quarter. You will be asked to give a brief summary of your contributions to the team

Grading

	% of Total Grade	200 Total Points
3 Assignments	30	60 (20 each)
1 Comprehensive Exam	20	40
5 Reading Quizzes (lowest quiz score dropped)	20	40 (10 each)
Final Project pt. 1	10	20
Final Project pt. 2	20	40
Bonus	N/A	3-5 bonus

Discussions Outline

Week 2: Introductions, 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, Data Visualizations with matplotlib

Week 6: EDA demo, Final Project Part 1 reviews/discussions

Week 7: Reading 4, P-Value, Inferential Analysis

Week 8: Reading 5, Machine Learning demo

Week 9: Text/Geospatial analysis

Week 10: Final Project Part 2 reviews/discussions



Team names with Gemini and Python