CSE 531A Projects

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AI for Health Institute
Research-Oriented Class on AIHealth

- **Projects 60%**
  - Proposal and presentation: 10%
  - Demo I: 5%
  - Demo II: 5%
  - Final report and demo: 40%

- **Critiques 35%**

- **Participation 5%**

- **Mini research experience on AIHealth**
- **Interdisciplinary**: co-taught by researchers from CS and medicine

- Participation
Two students per team
- Need TA permission for a three-member team.

- Develop AI models
- Train and validate models using clinical data
- Write a paper
- Demos

Opportunity to contribute to the AIHealth research
Steps

1. Formulate your research problem
2. Form a team
3. Propose a research plan
4. Develop and train your models
5. Validate your models
6. Demo 1, 2 and Final Demo
7. Write a technical report
Get Started Early

- Think about topics and ideas
- Talk to TA and me
- Put together a team

A lot of work (and fun) throughout the semester!
Teaming

- Everyone should be in a **three**-member team
  - unless you receive special approval from TA for a different size

- Use *Piazza* to “Search for Teammates”

- Email TA your team members
  - One email per team

- Join one group on Canvas > People > Groups

- We will help make sure everyone has a team.
Proposal Presentation

- In class

- 6 min per group
  - 5-min talk + 1-min Q&A
  - 4 slides
  - Rehearse in advance

- Your elevator pitch!

- Email TA your slides before class
Written Proposal

- One proposal/team, one page
  - Team members
  - Concise description of project
  - Responsibilities of each member
  - Equipment needed

- Submit your proposal by **11:59 pm on the due date**
Demos

- Demo I, II
  - In class
  - Checkpoints: show substantial progress
  - 10 minutes per team

- Final demo
  - In class (extended)
  - 10 min per team
Final Report

Submit by **11:59 pm on the due date**

- **Report**
  - Style follows conference papers in the reading list
  - 6 pages, double column, 10 pts font
  - Use templates on the class web page

- **Materials**
  - Slides of your final presentation
  - Source code
  - Documentation
Peer Review

- For fairness in team projects.

- Email me separately after submitting your final report
  - Percentage of contributions of each team member.
  - Brief justification.
Logistics

- Email TA or professor for appointments to discuss ideas
- All work will be submitted through Canvas
- Find demo and due dates on the class schedule