Student Presentation

• Remember to submit the peer review form by 6pm

Logistics: Project Milestone 2

- Milestone 2: Due Nov 5
 - Summarize your progress
 - Should make enough progress to know whether the project is feasible
 - Last chance to convert a research project to an extensive literature survey

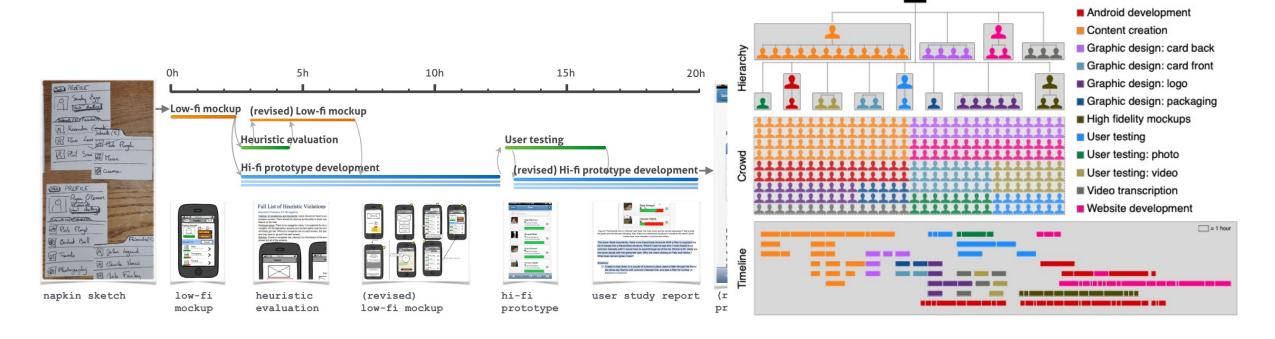
- Midterm Pitch: Nov 2 (Tue), in lecture
 - Opportunity to engage other classmates
 - Every group will get around 10~12 minutes of time from other 3 groups
 - If you want to engage the entire class (for data collection, etc)
 - Let me know at least one week in advance
 - There might be time limits (e.g., 2~3 minutes)
 - Plan your progress to utilize this discussion lecture

Lecture 16 Future of Work

Instructor: Chien-Ju (CJ) Ho

This Lecture

Teamwork and Expert Crowdsourcing



Blurring the Line of Traditional/Micro Work

More Than Crowdsourcing

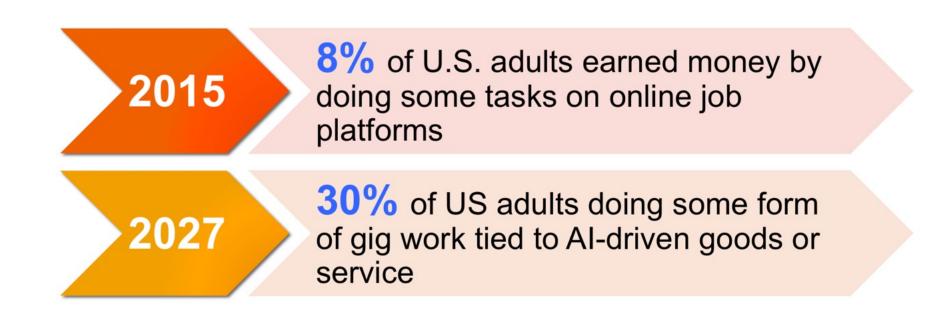


More Than Crowdsourcing: Gig-Economy

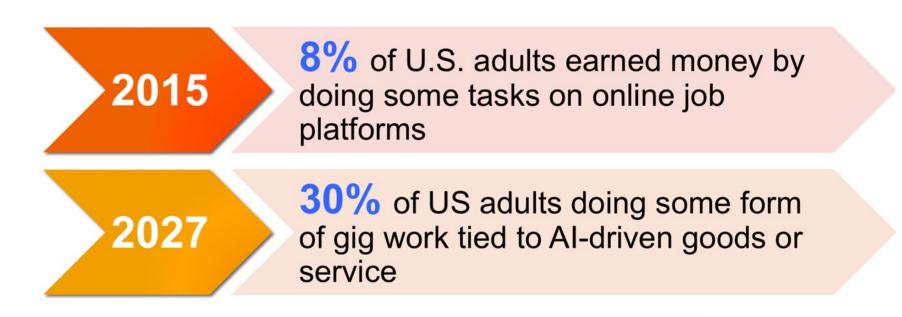
2015

8% of U.S. adults earned money by doing some tasks on online job platforms

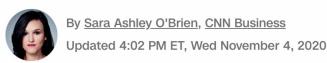
More Than Crowdsourcing: Gig-Economy



More Than Crowdsourcing: Gig-Economy



Prop 22 passes in California, exempting Uber and Lyft from classifying drivers as employees



Judge rules California Prop 22 gig workers law is unconstitutional

Voters approved the law in November

Even the traditional work environment is changing

Dropbox is making its workforce 'virtual first.' Here's what that means

By Kathryn Vasel, CNN Business

Updated 4:59 PM ET, Tue October 13, 2020

Microsoft is letting more employees work from home permanently

Microsoft employees will also be able to relocate

By Tom Warren | @tomwarren | Oct 9, 2020, 7:32am EDT

27 Companies That Have Switched to Long-Term Remote Work

If remote work is the future, these companies are ready — and hiring.

Emily Courtney • October 8, 2020

Google's plan to cut pay for remote workers who relocate is a bad idea

Many workers are paid based on where they live. That's changing.

By Rani Molla | @ranimolla | Oct 4, 2021, 8:00am EDT

Traditional



Centralized



Career



Management Strategies

On-demand



Distributed



Piecework



???

7 Jobs That Al Will Replace by 2025





These jobs are under threat as robots and artificial intelligence takeover amid pandemic

AI likely to replace 27% of jobs within 20 years: Jeanne Lim

AI will replace repetitive jobs, taking time to adapt to specialised roles: Lim



By Abhinav Singh October 15, 2020 18:49 IST

Future of Work

- One of NSF's 10 Big Ideas:
 - "In 2019, NSF will invest \$30 million in each Big Idea and continue to identify and support emerging opportunities for U.S. leadership in Big Ideas that serve the Nation's future."



Future of Work at the Human-Technology Frontier

Catalyzing interdisciplinary science and engineering research to understand and build the human-technology relationship; design new technologies to augment human performance; illuminate the emerging socio-technological landscape; and foster lifelong and pervasive learning with technology. Read more.

Discussion

• From workers' perspectives, what do you think are "wrong" for the current crowdsourcing platforms? How do you think we can fix it?

• To put the questions into context, consider the following question

"Can we foresee a future crowd workplace in which we would want our children to participate?"

 What do you think are the most pressing questions related to the theme of "future of work"?

Improving Worker Welfare

- Discussion among researchers [Kittur et. CSCW 2013]
 - Create career ladders
 - Motivation, job design, reputation, hierarchy
 - Improve task design through better communications
 - Quality assurance, job design, task assignment, real-time crowd work, synchronous collaboration, platforms
 - Facilitate learning
 - Reputation and credentials, Als guiding crowds, crowds guiding Als, task assignment, quality assurance
- Various guidelines for conducting crowdsourcing
 - Guidelines for Academic Requesters
 - Responsible Research with Crowds: Pay Crowdworkers at Least Minimum Wage