ML/AI Club

Welcome!

About Us

Gun Woo Kim

Trung Le

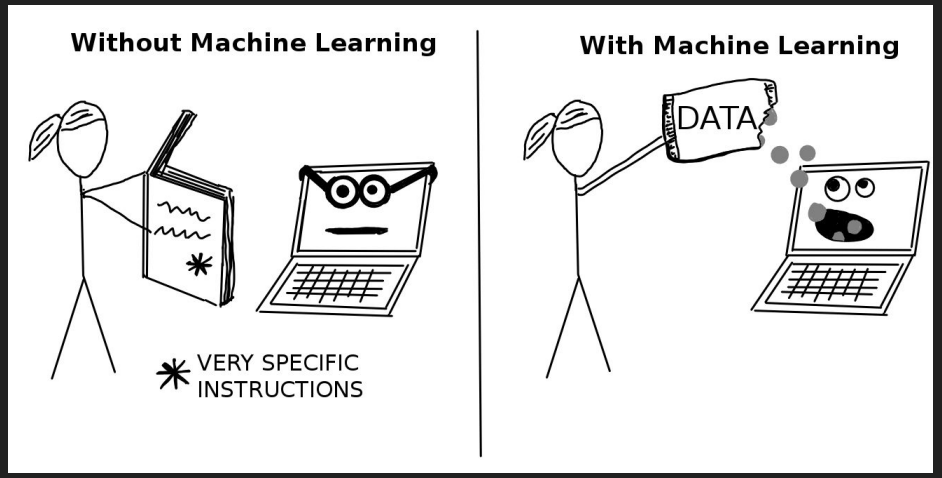
Kory Rosen

Minh Nguyen

\+ Devanshu Pandey

What is ML?

Learn to improve algorithms from data.



Why?

- Humans expertise does not exist
- Humans are unable to explain
- Solutions change or adapt over time

Why ML?

- DS
- MLE
- Quant?
- Grad School

Kahoot time!

Club Direction

- **Learning:**
  - Weekly masterclass sessions
  - Update recent advances of ML/AI fields
- **Participating:**
  - Kaggle
  - Datathon (collaboration w/ DASIL?)
  - Other ML competitions
  - Build projects, read papers
- **Connecting:**
  - Connect to professors and professionals in the fields

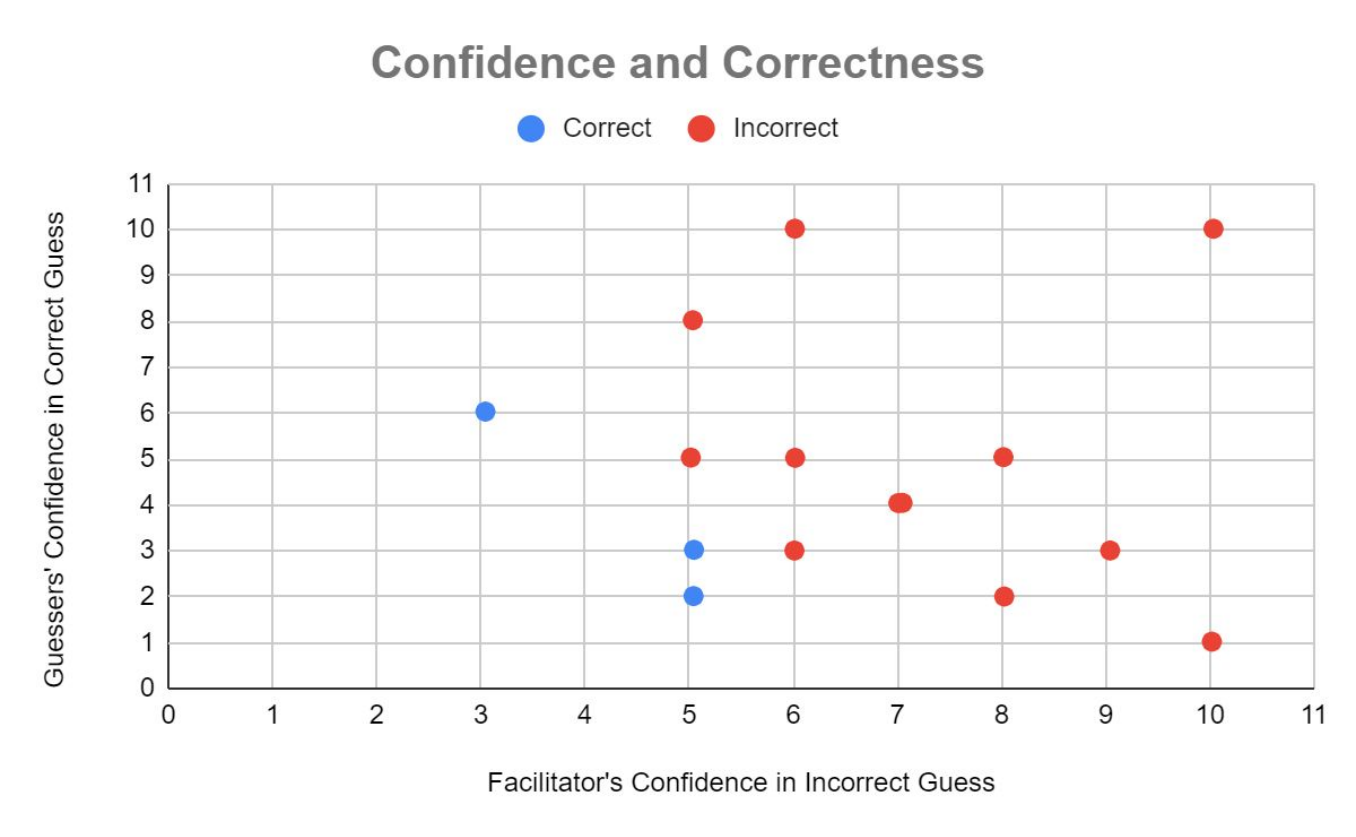
This semester

- Learn ML algorithms.
- Learn DL / review ML
- Step into Kaggle

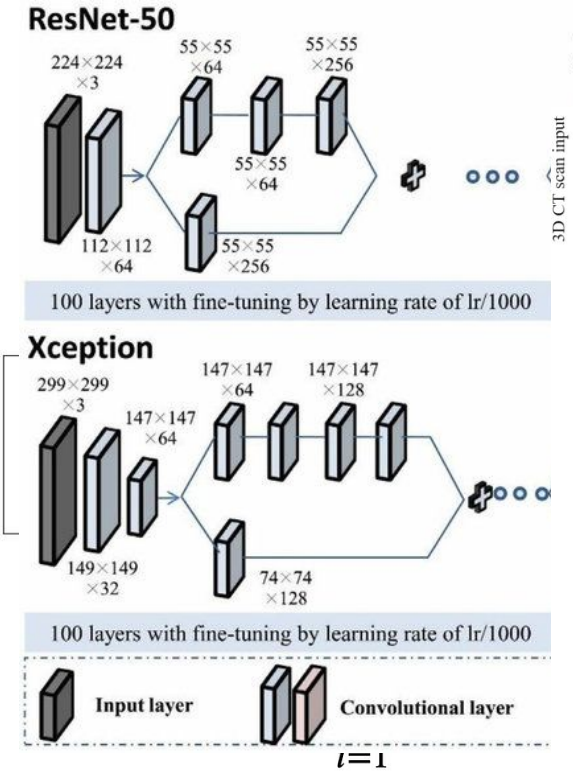
Icebreaker activity: Two Truths and One Lie

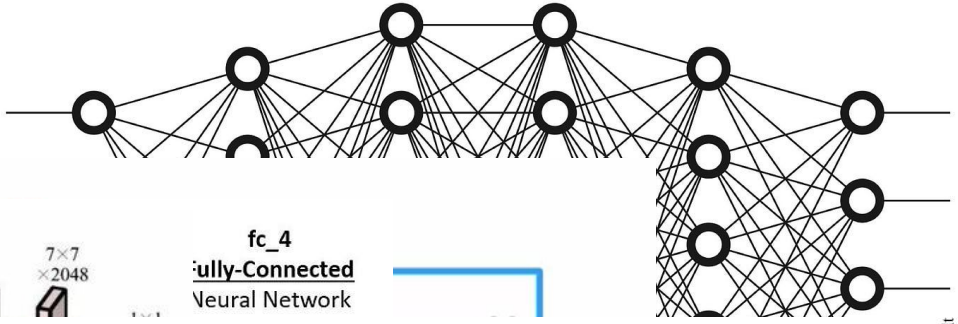
- Each takes turns introducing & sharing 2 truths and 1 lie about themselves.
- Others then collectively guess which statement is the lie, rating their confidence on a scale of 1-10.
- The facilitator also rates their confidence in believing the group is wrong on a scale of 1-10.
- Record data on the form: https://tinyurl.com/468xezfn
- Submit a new form for each person.

Data - 2T1L


Confidence and Correctness
Correct
Incorrect
Guessers' Confidence in Correct Guess
Facilitator's Confidence in Incorrect Guess
0
1
2
3
4
5
6
7
8
9
10
11

ML / DL





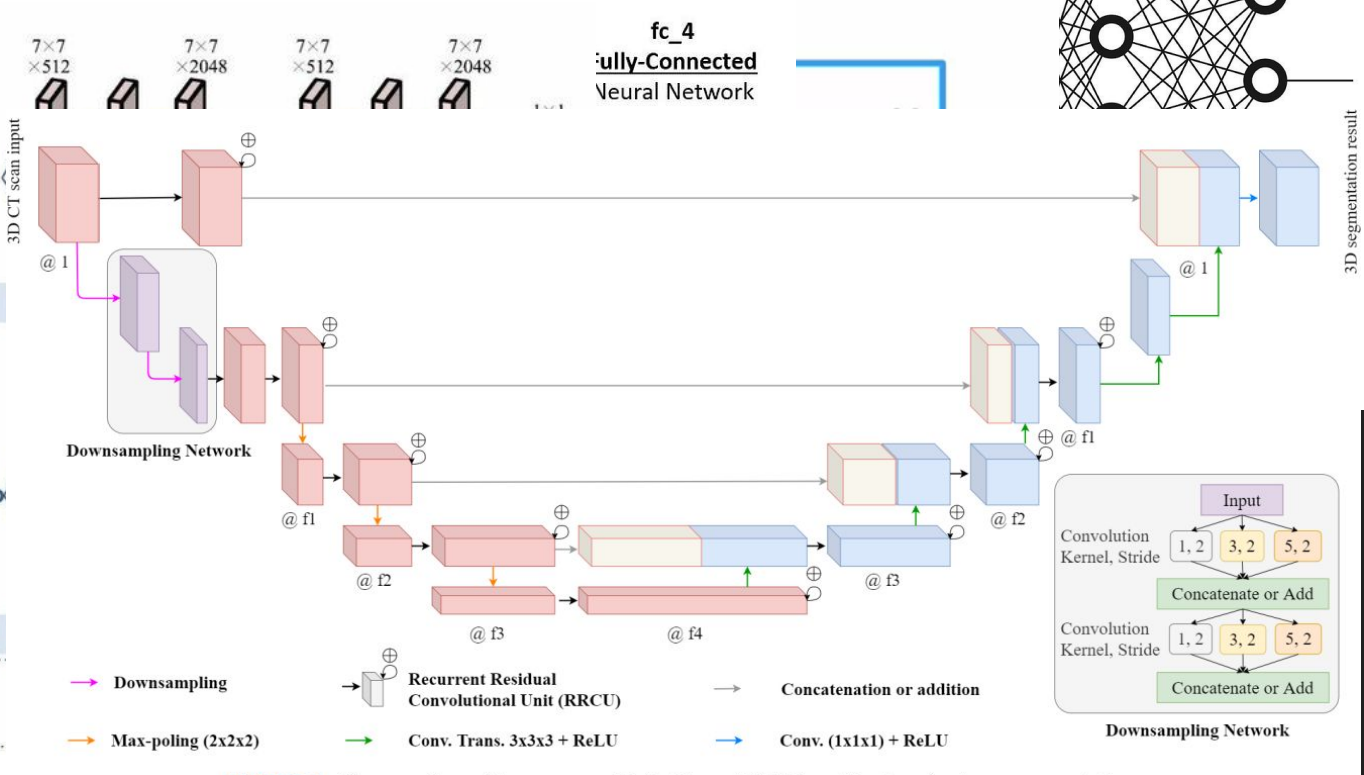
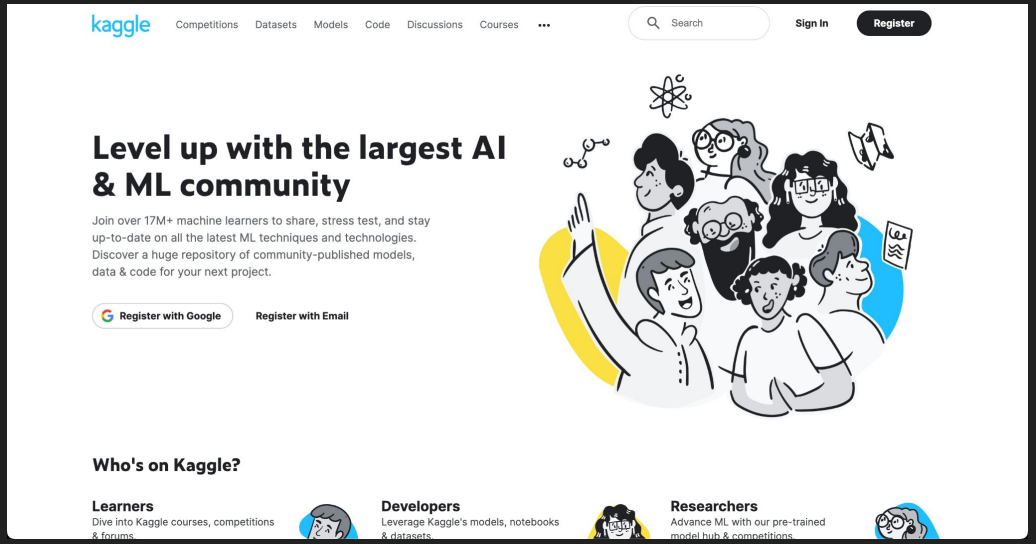


FIGURE 1. The overview of the proposed U-Net based P²U²D architecture for lung segmentation

Kaggle

Biggest AI/ML learning platform

17 million users



Why Kaggle?

- Learn ML in practice
- Build projects
- Explore and specialize in different areas (Vision, NLP, Tabular)
- Kaggle’s sharing culture → learn from experts’ answers
- Ranking system motivates to keep learning!

Kaggle Competition System

Competition Medals

Competition medals are awarded for top competition results. The number of medals awarded per competition varies depending on the size of the competition. Note that Community, Playground, and Getting Started competitions typically do not award medals.

	0-99 Teams	100-249 Teams	250-999 Teams	1000+ Teams
Bronze	Top 40%	Top 40%	Top 100	Top 10%
Silver	Top 20%	Top 20%	Top 50	Top 5%
Gold	Top 10%	Top 10	Top 10 + 0.2%*	Top 10 + 0.2%*

* (Top 10 + 0.2%) means that an extra gold medal will be awarded for every 500 additional teams in the competition. For example, a competition with 500 teams will award gold medals to the top 11 teams and a competition with 5000 teams will award gold medals to the top 20 teams.


Road to Kaggle Grandmaster
17,079,961 Novices
16,159 Experts
499 Grandmasters
232,409 Contributors
2,600 Masters.

Next Semester

- Kaggle Competition in teams
- on-site competitions
- projects
- open to public.
- current members can lead sessions next semester.

Next Session

- Python and Numpy Fundamentals for ML

Thanks for coming!