# Meeting 2 Agenda

#### TODO list before Friday

- 1. Read all discussion slides related to project
- 2. Register for KDD account
  - https://www.biendata.xyz/kdd2024/#overview
  - Find project 1 (IND)
  - Click Join this competition
  - Click Sign Up
- 3. Download data and Run Baselines for IND
  - Download the dataset
    - wget https://www.dropbox.com/scl/fi/o8du146aafl3vrb87tm45/IND-WhoIsWho.zip?rlke
    - unzip IND-WhoIsWho.zip
  - Clone the baseline repository
    - git clone https://github.com/THUDM/whoiswho-top-solutions.git
    - cd whoiswho-top-solutions/incorrect\_assignment\_detection
  - Install required packages
    - pip install -r requirements.txt
  - Preprocess data
    - python encoding.py --path pid\_to\_info\_all.json
      - --save\_path roberta\_embeddings.pkl
    - python build\_graph.py --author\_dir train\_author.json
      - --save\_dir train.pkl --pub\_dir pid\_to\_info\_all.json
      - --embeddings\_dir roberta\_embeddings.pkl
    - $-\ {\tt python}\ {\tt build\_graph.py}\ --{\tt author\_dir}\ {\tt ind\_valid\_author.json}$ 
      - --save\_dir valid.pkl --pub\_dir pid\_to\_info\_all.json
      - --embeddings\_dir roberta\_embeddings.pkl
  - Train and test the model
    - python train.py --train\_dir train.pkl --test\_dir valid.pkl
- 4. Make dummy submission
  - https://www.biendata.xyz/kdd2024/#overview
  - Find project 1 (IND)
  - Click Join this competition
  - $\bullet~{\rm Find}~{\tt Make}~{\tt a}~{\tt submission}~{\rm in}~{\rm the}~{\rm sidebar}$
  - Keep an eye out for "add team members" button
- 5. Meet again Friday to discuss Project Proposal
  - Read some literature on this project

### **Dummy Submission**

Dummy submission due last sunday

- Email professor and TA
- Read discussion slides to catch up on project
- Steps
  - Run the baseline code provided for your chosen task
  - Prepare the dummy submission file according to the specified format
  - Submit the dummy file to the contest portal
  - Verify that the submission was successful and meets the requirements
- All members must register for an account

#### WhoIsWho-IND

- Background
  - Increasing online publications make name ambiguity more complex
  - Inaccurate disambiguition results lead to invalid author rankings and award cheating
  - Competition aims to develop models to discover paper assignment errors for given authors
- Task
  - Given each author's profile (name and published papers)
  - Develop a model to detect incorrect paper assignments
- Dataset
  - Paper attributes provided:
    - \* Title, Abstract, Authors, Keywords, Venue, Publication year
  - Participants not allowed to use disambiguation results of existing academic search systems
- Evaluation
  - Weighted Area Under ROC Curve (AUC)
- Baselines
  - Graph-based anomaly detection methods
  - LLM-based methods

## **Project Proposal**

- Due May 13th
- One submission per team

- $\bullet \ \ \mbox{Use NeurIPS LaTeX style files: 2 pages max excluding references} \\ \mbox{https://www.overleaf.com/latex/templates/neurips-2023/vstgtvjwgdng}$ 
  - Include:
    - Problem statement
    - Literature review
    - Tentative schedule
    - Tentative approach
    - Division of workload per member
    - References
  - Run official baselines
  - Survey literature for improvement ideas
  - Propose  $\geq 1$  method to improve baselines
  - Discuss with TA/Professor to formalize idea
  - Use proposal as blueprint for final report

#### Baselines - IND

- Download the dataset
- Clone the baseline repository
- Install required packages
- Preprocess data
- Train and test the model

#### Data Download

Find under "Files" in BruinLearn

• Go download IND dataset from BruinLearn