Project idea brainstorm:

ΑI

Problem people have:

Al plagiarism

Too slow

Over explain

Timing events with friends

Timing meetings with co-workers

Buying things online

Buying clothes online without knowing size (different standards in different countries)

Finding new hobbies (tinker for hobbies?)

Best sitting position

Stalker / sexual harassment detection -> camera computer vision

Ideas:

Website chatbot -> on personal website?

Al that allows you to explore hobbies

Ai that deterimines best sitting position from picture of desk

- Inputs phone picture of desk
- 3d model of human
 - Red parts to show strained muscles
- 3d model of desk
- Instructions on how to move body to best suit long term sitting

Ergonomics AI

- 1. Phone take picture (android implantation?)
 - a. Open CV
 - b. Use YOLO to detect human and desk
 - c. Segmentation to divide human and desk and background
- 2. Pose generation:
 - a. PoseNet / OpenPose to detect post
 - b. Outputs json file (?)
- 3. Al prediction of strained parts
 - a. ???
 - b. Open source model
 - https://github.com/BehnooshParsa/HumanActionRecognition_with_Ergon omicRisk
- 4. Visualization
 - a. Matplotlib human heat map
 - i. Each string in the AI output corresponds to body part
 - ii. Also shows percentage of strain

- iii. Matplotlib heat map generation
- 5. Al recommendations
 - a. Insert at risk body parts
 - b. Prompt eng ideal ergonomic positions
 - c. text output recommendations
- 6. UI
 - a. HTML + CSS + JS front end
 - b. Flask backend
 - C.