Akul

- visualizations show different shapes
- thresholds for peaks on each exercise
  - tried for ONE set using only X accelerometer
  - manually picked thresholds based on visualizations

Akshay

- likes CNN approach with screenshots
- for all activities, did EDA
- total: 2056 sets including junk sets
- rep counts EDA:
  - 1235 sets that have countable reps
- for recognition, should we exclude
  - should we group the exercise names that are similar? (ie left & right)
    - ↳ but are the signals similar?
    - ↳ maybe start without grouping & then group later using levenstein (?) distance on the activity name strings to see if performance improves.
- Do we have enough data?
  - Features: screenshots & exercise name
  - Features: pooling of x, y, z, t & exercise name
  - Option to generate more data: add some noise to the signal
- For counting problem:
  1. Try implementing paper
  2. CNN images Attempt

- Next steps: work with Akul to do threshold thing + generate autocorrelation features
- PCA part → TODO
- Manish already implemented filter passing
- Patricia to fix code in shared notebook

Patricia

- Ask ChatGPT to speed this up (spark stuff)
  - Dask instead of spark? Akul suggested but it still didn't work for him
  - Maybe try 1 exercise
- Start a repo & put name next to file