week.csv

week\_norm\_pca.csv

Week, norm(standardized) by all, pca

(User + **180 features** + 1 label) **× 67166 activities (1000 users)**

week\_norm\_pca\_norm.csv

Week, norm(standardized) by all, pca, scale

180features+1label \* 67166 activities

week\_norm\_pca\_70.csv

Delete 70% of the (len=72, sum\_ins=0) directly

data\_1.0.csv (6164 rows × 182 columns)

Week, norm(standardized) by all, pca

Deleted (72, 0) (<15, 0)data

(User + **180 features** + 1 label) **× 6164 activities (136 users)**

data\_2.0.csv (18038 rows × 182 columns)

Week, norm(standardized) by all, pca

Deleted (72, 0) (<15, 0)data

Augmented (slide window, random.seed(1)form[30, 60))

(User + **180 features** + 1 label) **× 18038 activities (452 users)**

data\_2.1.csv (18358 rows × 182 columns)

Week, norm(standardized) by all, pca

Deleted (72, 0) (<15, 0)data

Augmented (slide window, random.seed(1)form[40, 50))

(User + **180 features** + 1 label) **× 18358 activities (452 users)**

Data\_3.1.csv (19381 rows × 406 columns) - 768 users

Data\_processing\_2.0, no PCA

Repeat twice

**Recall: 0.71, 0.72**

Data\_3.2.csv (26836 rows × 406 columns) - 1084 users

Data\_processing\_2.0, no PCA

Repeat third times

**Recall: 0.72, 0.44**

Data\_3.3.csv (11769 rows × 406 columns) - 452 users

Data\_processing\_2.0, no PCA

No Repeat

**Recall: 0.70, 0.74**

Data\_3.4.csv () - 1354 users (0\*66, 1\*640, 2\*538, 3\*110)

Data\_processing\_2.0, no PCA

Repeat [12,2,10] times, 4 classes

Data\_3.5.csv (11863 rows × 406 columns) - 452 users (0\*66, 1\*82, 2\*284, 3\*20)

Data\_processing\_2.0, no PCA

No repeat, 4 classes

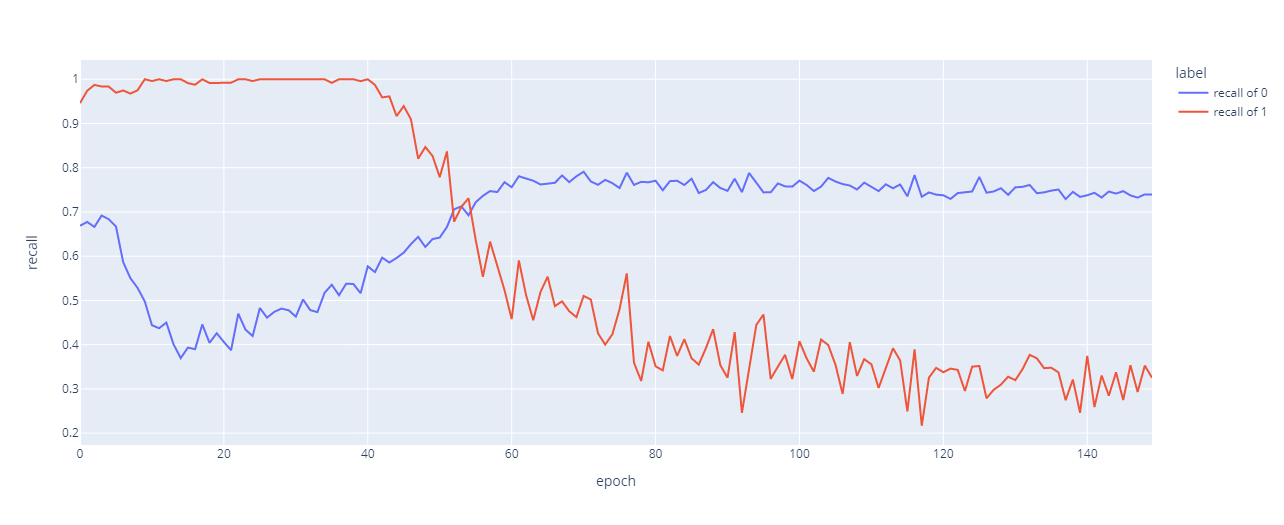
Data\_3.1.csv

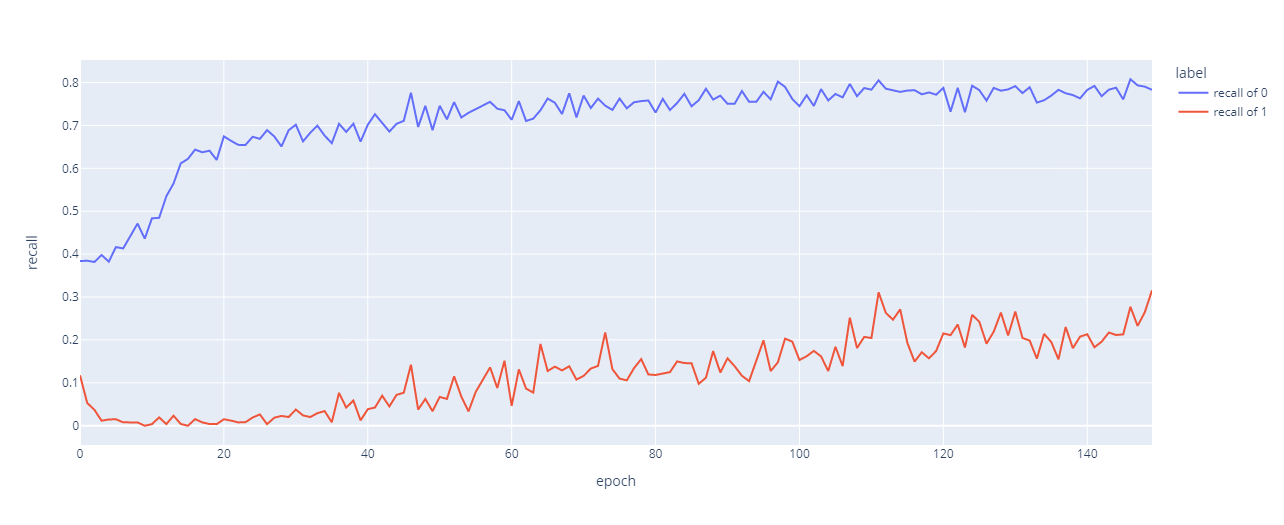
Session, no aug, with norm, no pca

* Avg of loss value within batch: divided by whole length. Should divided non-zero (before mask) length
* Softmax(dim=2): was dim=1, didn’t check

？？？

Same 3.1 data:





Even same dataloader:

