Experiments

Qualitative Results

- Show distribution of features assigned by the neural classifier as the positive or negative class.
- Select the most confident 100 predictions for each class tends to gradually increase over time, positive class tends to decrease over time.
  - Reassert the necessity of the sequential feature and the sequence encoder to capture the temporal dynamics of users' pattern.

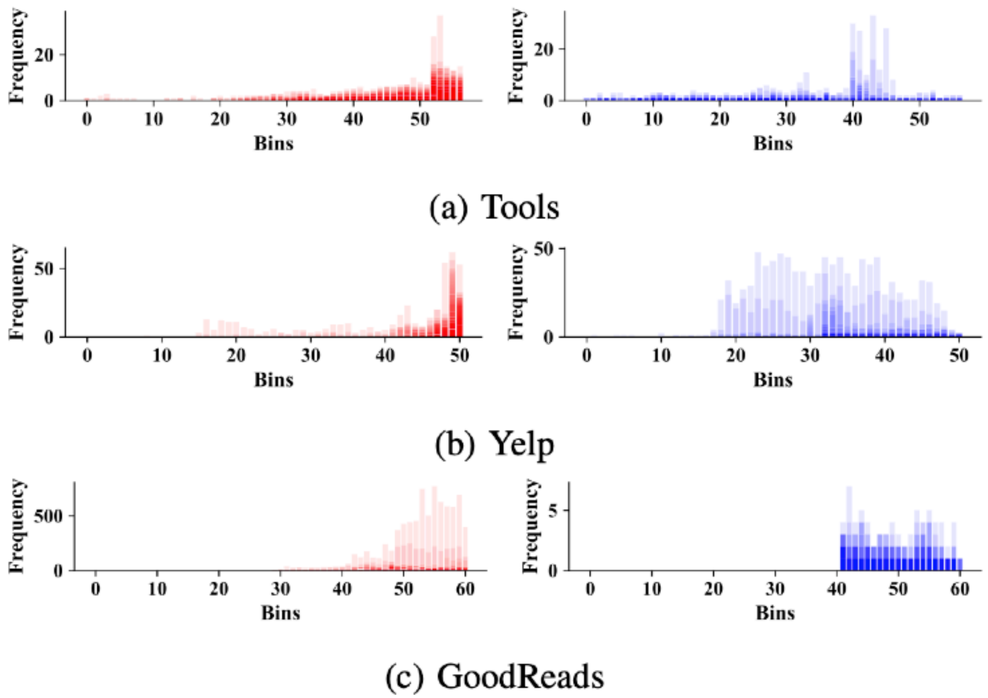

Fig. 9: Distribution of features associated with the most confident 100 predictions in each class. Left and right figures represent the features classified as positive and negative, respectively.

Conclusions

- Build a recommender system based on the ISS (interest sustainability score).
- First predict the interest sustainability of items to obtain the ISS for each item based on a neural classifier.
- Afterward, build a recommender system based on the metric learning framework with the ISSs of items to capture the concept drift of users.
- Reveal that the ISSs are indeed crucial to boost the accuracy of recommendations.