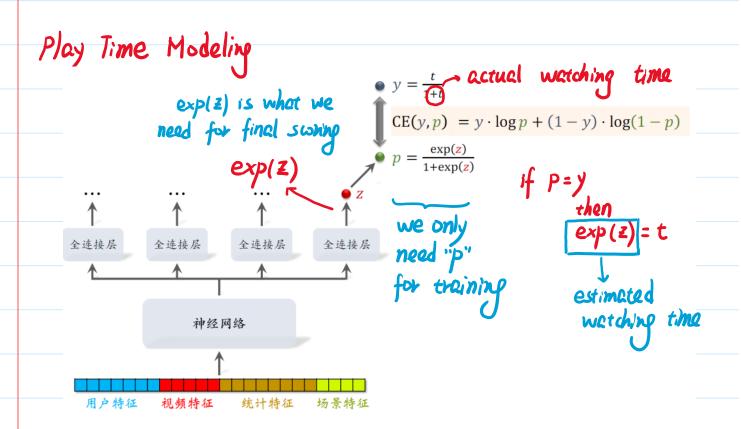
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Video: ① play time ② Complete rate
3 other interaction: like, collect .....



(picture from Shusen Wang on Youtube/Bilibili)

## Video Playing Model

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Complete Rate Modeling:

Regression:

- 1) video length is 10 minutes; actual watch 4 minutes complete rate is 4/10 = 0.4
- ② let estimated complete rate be close to actual:  $L = y \cdot \log P + (1-y) \cdot \log (1-P)$
- 3 if model predicts P = 0.7. it means the video is likely to play 70% of its length time.

## Binary Classification:

- 1 define threshold:
  - if a vides is played for move than  $\times$  of its length time. it is positive sample. Otherwise, negative.
- @ classify vides > x% vs. video < x%
- (3) If model predicts 0.7. it means the vides has 70%. chance to be played more than x% time.

## Video Playing Model

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