| Method | how many | what | when | where | who | overall |
|-------------------------------------|----------|-------|-------|-------|-------|--|
| | (11.8 | | ! | | • | <u>. </u> |
| Logistic Regression | 0.645 | 0.241 | 0.217 | 0.277 | 0.260 | 0.295 |
| Embedding + LSTM | 0.771 | 0.564 | 0.349 | 0.314 | 0.310 | 0.478 |
| Embedding + LSTM + Concat | 0.776 | 0.668 | 0.398 | 0.433 | 0.409 | 0.563 |
| MemexNet | 0.668 | 0.448 | 0.480 | 0.460 | 0.468 | 0.484 |
| DMN+ | 0.792 | 0.625 | 0.342 | 0.252 | 0.222 | 0.483 |
| Multimodal Compact Bilinear Pooling | 0.768 | 0.631 | 0.258 | 0.229 | 0.240 | 0.467 |
| Bi-directional Attention Flow | 0.790 | 0.665 | 0.354 | 0.556 | 0.453 | 0.583 |
| Soft Attention | 0.802 | 0.682 | 0.384 | 0.541 | 0.479 | 0.598 |
| TGIF Temporal Attention | 0.783 | 0.714 | 0.469 | 0.622 | 0.558 | 0.647 |
| FVTA | 0.773 | 0.725 | 0.422 | 0.701 | 0.710 | 0.676 |