

| Models | AGNews | Sogou | Yelp Bin | Yelp Full | DBPed | Yahoo |
|-----------------------------------|--------|-------|----------|-----------|-------|-------|
| Naïve Bayes | 90.0 | 86.3 | 86.0 | 51.4 | 96.0 | 68.7 |
| Kneser–Ney Bayes | 89.3 | 94.6 | 81.8 | 41.7 | 95.4 | 69.3 |
| MLP Naïve Bayes | 89.9 | 76.1 | 73.6 | 40.4 | 87.2 | 60.6 |
| Discriminative LSTM | 92.1 | 94.9 | 92.6 | 59.6 | 98.7 | 73.7 |
| Generative LSTM-independent comp. | 90.7 | 93.5 | 90.0 | 51.9 | 94.8 | 70.5 |
| Generative LSTM-shared comp. | 90.6 | 90.3 | 88.2 | 52.7 | 95.4 | 69.3 |
| bag of words | 88.8 | 92.9 | 92.2 | 58.0 | 96.6 | 68.9 |
| fastText | 92.5 | 96.8 | 95.7 | 63.9 | 98.6 | 72.3 |
| char-CNN | 87.2 | 95.1 | 94.7 | 62.0 | 98.3 | 71.2 |
| char-CRNN | 91.4 | 95.2 | 94.5 | 61.8 | 98.6 | 71.7 |
| very deep CNN | 91.3 | 96.8 | 95.7 | 64.7 | 98.7 | 73.4 |