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|  | **LSTM** | | **CNN** | | **FF** | |
|  | Acc. |  | Acc. |  | Acc. |  |
| baseline | 0.867 | 0 | 0.87252 | 0 | 0.86908 | 0 |
| pos | 0.8678 | 0.00572 | 0.87896 | 0.00672 | 0.86832 | -0.00075 |
| pos-embed | 0.867 | 0.00492 | 0.87923 | 0.00644 | 0.86848 | -0.0006 |
| parse | 0.83852 | -0.0236 | 0.85284 | -0.01968 | 0.854 | -0.0150 |
| pos+ parse | 0.84228 | -0.0198 | 0.85464 | -0.01788 | 0.85516 | -0.01392 |
| pos-embed + parse | 0.8318 | -0.03028 | 0.857 | -0.01552 | 0.85512 | -0.01396 |

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|  | **LSTM** | | **CNN** | | **FF** | |
|  | Acc. |  | Acc. |  | Acc. |  |
| baseline | 0.84296 | 0 | 0.83056 | 0 | 0.783119 | 0 |
| pos | 0.84168 | -0.00128 | 0.82772 | -0.00284 | 0.7882 | 0.00508 |
| pos-embed | 0.8466 | 0.00364 | 0.82484 | -0.00572 | 0.7882 | 0.00512 |
| parse | 0.799 | -0.04396 | 0.76852 | -0.06204 | 0.73324 | -0.0499 |
| pos + parse | 0.79492 | -0.04804 | 0.76496 | -0.0656 | 0.74708 | -0.0360 |
| pos-embed + parse | 0.80968 | -0.03328 | 0.78036 | -0.0502 | 0.74708 | -0.0360 |

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|  | **LSTM** | | **CNN** | | **FF** | |
|  | Acc. |  | Acc. |  | Acc. |  |
| baseline | 84.30 | 0 | 83.06 | 0 | 78.31 | 0 |
| pos | 84.17 | **-0.13** | 82.77 | **-0.28** | 78.82 | **0.51** |
| pos-embed | 84.66 | **0.36** | 82.48 | **-0.57** | 78.82 | **0.51** |
| parse | 79.90 | **-4.40** | 76.85 | **-6.20** | 73.32 | **-4.99** |
| pos + parse | 79.49 | **-4.80** | 76.50 | **-6.56** | 73.19 | **-5.12** |
| pos-embed + parse | 80.97 | **-3.33** | 78.04 | **-5.02** | 74.71 | **-3.60** |

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|  | **LSTM** | | **CNN** | | **FF** | |
|  | Acc. |  | Acc. |  | Acc. |  |
| baseline | 86.21 | 0 | 87.25 | 0 | 86.91 | 0 |
| pos | 86.78 | **0.57** | 87.90 | **0.67** | 86.83 | **-0.08** |
| pos-embed | 86.70 | **0.49** | 87.92 | **0.64** | 86.85 | **-0.06** |
| parse | 83.85 | **-2.36** | 85.28 | **-1.97** | 85.4 | **-1.50** |
| pos+ parse | 84.23 | **-1.98** | 85.46 | **-1.79** | 85.51 | **-1.40** |
| pos-embed + parse | 83.18 | **-3.03** | 85.7 | **-1.55** | 85.52 | **-1.39** |

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| **Hyperparameter** | **Value** |
| Maximum text sequence length | 300 |
| Batch size | 256 |
| Dropout | 0.5 |