

Dataset	Tokenizer	Embedding	Classification algorithm	F1	Precision	Recall
MIMIC Status	SciSpacy	BoW	ANN	79.8%	80.2%	79.6%
MIMIC Status	SciSpacy	MIMIC FastText	ANN	80.9%	80.9%	80.9%
MIMIC Status	SciSpacy	MIMIC GloVe	ANN	80.6%	80.7%	80.7%
MIMIC Status	BBPE	MIMIC Word2Vec	ANN	80.5%	80.6%	80.6%
MIMIC Status	SciSpacy	MIMIC Word2Vec	ANN	80.9%	81.3%	81.0%
MIMIC Status	SciSpacy	MIMIC Word2Vec clean	ANN	80.0%	80.3%	80.1%
MIMIC Status	SciSpacy	MIMIC Word2Vec lem	ANN	79.6%	80.1%	79.7%
MIMIC Status	SciSpacy	MIMIC Word2Vec stem	ANN	79.7%	79.8%	79.8%
MIMIC Status	SciSpacy	Wiki FastText	ANN	77.0%	77.7%	76.8%
MIMIC Status	SciSpacy	Wiki GloVe	ANN	78.5%	78.8%	78.5%
MIMIC Status	SciSpacy	Wiki Word2Vec	ANN	77.2%	77.9%	76.9%
MIMIC Status	WordPiece	BERTbase	BERT	91.5%	91.6%	91.5%
MIMIC Status	SciSpacy	MIMIC FastText	BiLSTM - custom	93.7%	94.0%	94.1%
MIMIC Status	SciSpacy	MIMIC GloVe	BiLSTM - custom	93.9%	94.0%	93.9%
MIMIC Status	BBPE	MIMIC Word2Vec	BiLSTM - custom	94.7%	94.8%	94.7%
MIMIC Status	SciSpacy	MIMIC Word2Vec	BiLSTM - custom	94.5%	94.5%	94.5%
MIMIC Status	SciSpacy	MIMIC Word2Vec clean	BiLSTM - custom	86.3%	86.5%	86.4%
MIMIC Status	SciSpacy	MIMIC Word2Vec lem	BiLSTM - custom	86.4%	86.6%	86.5%
MIMIC Status	SciSpacy	MIMIC Word2Vec stem	BiLSTM - custom	86.0%	86.3%	86.2%
MIMIC Status	SciSpacy	MIMIC Clean Word2Vec	BiLSTM - custom	94.4%	94.5%	94.5%
MIMIC Status	SciSpacy	MIMIC Lem Word2Vec	BiLSTM - custom	94.1%	94.2%	94.2%
MIMIC Status	SciSpacy	Wiki FastText	BiLSTM - custom	93.6%	93.7%	93.7%
MIMIC Status	SciSpacy	Wiki GloVe	BiLSTM - custom	93.4%	93.5%	93.5%
MIMIC Status	SciSpacy	Wiki Word2Vec	BiLSTM - custom	92.8%	92.9%	92.9%
MIMIC Status	BBPE	MIMIC Word2Vec	BiLSTM - non custom	89.3%	89.4%	89.2%
MIMIC Status	WordPiece	BioBERT	BioBERT	93.4%	93.5%	93.4%
MIMIC Status	SciSpacy	MIMIC FastText	CNN	81.8%	82.1%	82.3%
MIMIC Status	SciSpacy	MIMIC GloVe	CNN	84.0%	84.6%	84.5%
MIMIC Status	BBPE	MIMIC Word2Vec	CNN	84.3%	84.7%	84.7%
MIMIC Status	SciSpacy	MIMIC Word2Vec	CNN	84.6%	85.2%	85.0%
MIMIC Status	SciSpacy	MIMIC Word2Vec clean	CNN	84.7%	85.1%	85.0%
MIMIC Status	SciSpacy	MIMIC Word2Vec lem	CNN	83.8%	84.1%	84.2%
MIMIC Status	SciSpacy	MIMIC Word2Vec stem	CNN	84.1%	84.8%	84.6%
MIMIC Status	SciSpacy	Wiki FastText	CNN	83.7%	84.4%	84.2%
MIMIC Status	SciSpacy	Wiki GloVe	CNN	81.3%	81.3%	83.0%
MIMIC Status	SciSpacy	Wiki Word2Vec	CNN	83.4%	84.1%	83.8%
MIMIC Status	BBPE	MIMIC Word2Vec	RNN - custom	86.0%	86.0%	86.0%
MIMIC Status	SciSpacy	MIMIC Word2Vec	RNN - custom	89.5%	89.5%	89.6%
MIMIC Status	SciSpacy	MIMIC Word2Vec clean	RNN - custom	86.1%	86.3%	86.3%
MIMIC Status	SciSpacy	MIMIC Word2Vec lem	RNN - custom	86.3%	86.5%	86.5%
MIMIC Status	SciSpacy	MIMIC Word2Vec stem	RNN - custom	86.1%	86.4%	86.3%
MIMIC Status	SciSpacy	Wiki Word2Vec	RNN - custom	77.7%	75.9%	81.2%
MIMIC Status	SciSpacy	MIMIC FastText	RNN - non custom	78.0%	79.5%	79.4%
MIMIC Status	SciSpacy	MIMIC GloVe	RNN - non custom	77.9%	76.3%	80.5%
MIMIC Status	BBPE	MIMIC Word2Vec	RNN - non custom	76.5%	77.8%	78.0%
MIMIC Status	SciSpacy	MIMIC Word2Vec	RNN - non custom	77.0%	78.7%	78.5%
MIMIC Status	SciSpacy	MIMIC Word2Vec clean	RNN - non custom	80.2%	80.5%	80.6%
MIMIC Status	SciSpacy	MIMIC Word2Vec lem	RNN - non custom	78.0%	79.1%	79.1%
MIMIC Status	SciSpacy	MIMIC Word2Vec stem	RNN - non custom	79.4%	79.7%	80.0%
MIMIC Status	SciSpacy	Wiki FastText	RNN - non custom	69.8%	66.6%	75.5%
MIMIC Status	SciSpacy	Wiki GloVe	RNN - non custom	73.1%	70.8%	77.3%
MIMIC Status	SciSpacy	Wiki Word2Vec	RNN - non custom	69.0%	65.5%	74.7%
MIMIC Status	SciSpacy	BoW	SVC	82.7%	82.9%	82.6%
MIMIC Status	SciSpacy	MIMIC FastText	SVC	79.6%	80.5%	79.4%
MIMIC Status	SciSpacy	MIMIC GloVe	SVC	79.1%	80.6%	78.7%
MIMIC Status	BBPE	MIMIC Word2Vec	SVC	78.8%	79.9%	78.5%
MIMIC Status	SciSpacy	MIMIC Word2Vec	SVC	80.6%	81.9%	80.3%
MIMIC Status	SciSpacy	MIMIC Word2Vec clean	SVC	80.1%	81.3%	79.8%
MIMIC Status	SciSpacy	MIMIC Word2Vec lem	SVC	80.6%	81.9%	80.2%
MIMIC Status	SciSpacy	MIMIC Word2Vec stem	SVC	80.4%	81.5%	80.1%
MIMIC Status	SciSpacy	Wiki FastText	SVC	78.1%	79.4%	77.7%
MIMIC Status	SciSpacy	Wiki GloVe	SVC	78.6%	79.9%	78.2%
MIMIC Status	SciSpacy	Wiki Word2Vec	SVC	76.9%	78.8%	76.4%
MIMIC Temporality	SciSpacy	BoW	ANN	94.8%	95.0%	94.7%
MIMIC Temporality	SciSpacy	MIMIC FastText	ANN	96.6%	96.6%	96.6%
MIMIC Temporality	SciSpacy	MIMIC GloVe	ANN	95.7%	95.9%	95.7%
MIMIC Temporality	BBPE	MIMIC Word2Vec	ANN	95.9%	96.0%	95.8%
MIMIC Temporality	SciSpacy	MIMIC Word2Vec	ANN	96.5%	96.5%	96.5%
MIMIC Temporality	SciSpacy	Wiki FastText	ANN	95.2%	95.5%	95.1%

MIMIC Temporality	SciSpacy	Wiki GloVe	ANN	94.8%	95.0%	94.7%
MIMIC Temporality	SciSpacy	Wiki Word2Vec	ANN	94.7%	95.0%	94.6%
MIMIC Temporality	WordPiece	BERTbase	BERT	97.3%	97.3%	97.3%
MIMIC Temporality	SciSpacy	MIMIC FastText	BiLSTM - custom	97.6%	97.6%	97.6%
MIMIC Temporality	SciSpacy	MIMIC GloVe	BiLSTM - custom	97.9%	97.9%	97.9%
MIMIC Temporality	BBPE	MIMIC Word2Vec	BiLSTM - custom	98.3%	98.4%	98.4%
MIMIC Temporality	SciSpacy	MIMIC Word2Vec	BiLSTM - custom	97.9%	98.0%	98.0%
MIMIC Temporality	SciSpacy	MIMIC Clean Word2Vec	BiLSTM - custom	97.9%	97.9%	97.9%
MIMIC Temporality	SciSpacy	MIMIC Lem Word2Vec	BiLSTM - custom	98.4%	98.4%	98.4%
MIMIC Temporality	SciSpacy	Wiki FastText	BiLSTM - custom	96.9%	96.9%	96.9%
MIMIC Temporality	SciSpacy	Wiki GloVe	BiLSTM - custom	97.2%	97.2%	97.2%
MIMIC Temporality	SciSpacy	Wiki Word2Vec	BiLSTM - custom	97.3%	97.3%	97.3%
MIMIC Temporality	BBPE	MIMIC Word2Vec	BiLSTM - non custom	97.1%	97.1%	97.1%
MIMIC Temporality	WordPiece	BioBERT	BioBERT	97.3%	97.3%	97.3%
MIMIC Temporality	SciSpacy	MIMIC FastText	CNN	97.5%	97.5%	97.5%
MIMIC Temporality	SciSpacy	MIMIC GloVe	CNN	97.0%	97.1%	97.1%
MIMIC Temporality	BBPE	MIMIC Word2Vec	CNN	97.1%	97.2%	97.2%
MIMIC Temporality	SciSpacy	MIMIC Word2Vec	CNN	97.3%	97.4%	97.4%
MIMIC Temporality	SciSpacy	Wiki FastText	CNN	97.0%	97.0%	97.1%
MIMIC Temporality	SciSpacy	Wiki GloVe	CNN	97.2%	97.3%	97.3%
MIMIC Temporality	SciSpacy	Wiki Word2Vec	CNN	97.2%	97.3%	97.3%
MIMIC Temporality	SciSpacy	MIMIC Word2Vec	RNN - custom	96.7%	96.8%	96.8%
MIMIC Temporality	SciSpacy	MIMIC FastText	RNN - non custom	96.4%	96.4%	96.5%
MIMIC Temporality	SciSpacy	MIMIC GloVe	RNN - non custom	96.6%	96.6%	96.6%
MIMIC Temporality	BBPE	MIMIC Word2Vec	RNN - non custom	92.4%	93.1%	93.2%
MIMIC Temporality	SciSpacy	MIMIC Word2Vec	RNN - non custom	96.8%	96.9%	96.9%
MIMIC Temporality	SciSpacy	Wiki FastText	RNN - non custom	93.1%	92.7%	93.9%
MIMIC Temporality	SciSpacy	Wiki GloVe	RNN - non custom	95.0%	95.0%	95.1%
MIMIC Temporality	SciSpacy	Wiki Word2Vec	RNN - non custom	91.5%	90.6%	92.9%
MIMIC Temporality	SciSpacy	BoW	SVC	96.0%	96.0%	96.0%
MIMIC Temporality	SciSpacy	MIMIC FastText	SVC	93.7%	94.3%	93.5%
MIMIC Temporality	SciSpacy	MIMIC GloVe	SVC	94.1%	94.8%	93.8%
MIMIC Temporality	BBPE	MIMIC Word2Vec	SVC	93.1%	94.0%	92.7%
MIMIC Temporality	SciSpacy	MIMIC Word2Vec	SVC	95.1%	95.5%	94.9%
MIMIC Temporality	SciSpacy	Wiki FastText	SVC	94.4%	94.9%	94.2%
MIMIC Temporality	SciSpacy	Wiki GloVe	SVC	94.9%	95.4%	94.8%
MIMIC Temporality	SciSpacy	Wiki Word2Vec	SVC	94.8%	95.4%	94.5%
SHARE/CLEF Negation	SciSpacy	BoW	ANN	89.3%	89.5%	89.9%
SHARE/CLEF Negation	SciSpacy	MIMIC FastText	ANN	90.1%	90.5%	90.8%
SHARE/CLEF Negation	SciSpacy	MIMIC GloVe	ANN	88.4%	89.4%	89.5%
SHARE/CLEF Negation	BBPE	MIMIC Word2Vec	ANN	87.4%	87.5%	89.2%
SHARE/CLEF Negation	SciSpacy	MIMIC Word2Vec	ANN	88.6%	88.3%	90.1%
SHARE/CLEF Negation	SciSpacy	Wiki FastText	ANN	73.6%	66.9%	81.8%
SHARE/CLEF Negation	SciSpacy	Wiki GloVe	ANN	86.5%	87.9%	88.2%
SHARE/CLEF Negation	SciSpacy	Wiki Word2Vec	ANN	75.9%	72.6%	82.9%
SHARE/CLEF Negation	WordPiece	BERTbase	BERT	98.2%	98.2%	98.2%
SHARE/CLEF Negation	SciSpacy	MIMIC FastText	BiLSTM - custom	98.5%	98.5%	98.5%
SHARE/CLEF Negation	SciSpacy	MIMIC GloVe	BiLSTM - custom	98.7%	98.7%	98.7%
SHARE/CLEF Negation	BBPE	MIMIC Word2Vec	BiLSTM - custom	98.6%	98.6%	98.6%
SHARE/CLEF Negation	SciSpacy	MIMIC Word2Vec	BiLSTM - custom	98.7%	98.7%	98.7%
SHARE/CLEF Negation	SciSpacy	MIMIC Clean Word2Vec	BiLSTM - custom	98.4%	98.4%	98.4%
SHARE/CLEF Negation	SciSpacy	MIMIC Lem Word2Vec	BiLSTM - custom	98.5%	98.5%	98.5%
SHARE/CLEF Negation	SciSpacy	Wiki FastText	BiLSTM - custom	98.6%	98.6%	98.7%
SHARE/CLEF Negation	SciSpacy	Wiki GloVe	BiLSTM - custom	98.4%	98.4%	98.4%
SHARE/CLEF Negation	SciSpacy	Wiki Word2Vec	BiLSTM - custom	98.4%	98.4%	98.4%
SHARE/CLEF Negation	BBPE	MIMIC Word2Vec	BiLSTM - non custom	96.2%	96.1%	96.2%
SHARE/CLEF Negation	WordPiece	BioBERT	BioBERT	98.5%	98.5%	98.5%
SHARE/CLEF Negation	SciSpacy	MIMIC FastText	CNN	91.8%	91.8%	92.0%
SHARE/CLEF Negation	SciSpacy	MIMIC GloVe	CNN	92.1%	92.1%	92.2%
SHARE/CLEF Negation	BBPE	MIMIC Word2Vec	CNN	93.3%	93.3%	93.4%
SHARE/CLEF Negation	SciSpacy	MIMIC Word2Vec	CNN	92.0%	92.0%	92.2%
SHARE/CLEF Negation	SciSpacy	Wiki FastText	CNN	91.9%	91.9%	92.0%
SHARE/CLEF Negation	SciSpacy	Wiki GloVe	CNN	91.8%	91.8%	92.0%
SHARE/CLEF Negation	SciSpacy	Wiki Word2Vec	CNN	91.7%	91.7%	92.0%
SHARE/CLEF Negation	SciSpacy	MIMIC Word2Vec	RNN - custom	97.9%	97.9%	97.9%
SHARE/CLEF Negation	SciSpacy	MIMIC FastText	RNN - non custom	86.2%	86.2%	88.2%
SHARE/CLEF Negation	SciSpacy	MIMIC GloVe	RNN - non custom	94.3%	94.3%	94.3%
SHARE/CLEF Negation	BBPE	MIMIC Word2Vec	RNN - non custom	84.4%	83.7%	87.4%
SHARE/CLEF Negation	SciSpacy	MIMIC Word2Vec	RNN - non custom	94.0%	94.1%	93.9%
SHARE/CLEF Negation	SciSpacy	Wiki FastText	RNN - non custom	82.5%	79.2%	86.7%
SHARE/CLEF Negation	SciSpacy	Wiki GloVe	RNN - non custom	92.5%	92.5%	92.7%
SHARE/CLEF Negation	SciSpacy	Wiki Word2Vec	RNN - non custom	88.1%	86.9%	89.9%
SHARE/CLEF Negation	SciSpacy	BoW	SVC	90.2%	91.3%	89.7%
SHARE/CLEF Negation	SciSpacy	MIMIC FastText	SVC	88.9%	91.0%	88.2%

SHARE/CLEF Negation	SciSpacy	MIMIC GloVe	SVC	89.4%	91.4%	88.6%
SHARE/CLEF Negation	BBPE	MIMIC Word2Vec	SVC	89.7%	91.6%	89.1%
SHARE/CLEF Negation	SciSpacy	MIMIC Word2Vec	SVC	89.8%	91.7%	89.1%
SHARE/CLEF Negation	SciSpacy	Wiki FastText	SVC	88.7%	90.8%	87.9%
SHARE/CLEF Negation	SciSpacy	Wiki GloVe	SVC	88.8%	90.7%	88.1%
SHARE/CLEF Negation	SciSpacy	Wiki Word2Vec	SVC	88.5%	90.3%	87.8%
SHARE/CLEF Uncertainty	SciSpacy	BoW	ANN	89.3%	91.9%	92.1%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC FastText	ANN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC GloVe	ANN	87.4%	90.4%	91.3%
SHARE/CLEF Uncertainty	BBPE	MIMIC Word2Vec	ANN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Word2Vec	ANN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	Wiki FastText	ANN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	Wiki GloVe	ANN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	Wiki Word2Vec	ANN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	WordPiece	BERTbase	BERT	93.6%	93.3%	93.5%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC FastText	BiLSTM - custom	97.2%	97.2%	97.2%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC GloVe	BiLSTM - custom	96.9%	97.0%	97.0%
SHARE/CLEF Uncertainty	BBPE	MIMIC Word2Vec	BiLSTM - custom	97.6%	97.6%	97.6%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Word2Vec	BiLSTM - custom	97.3%	97.4%	97.4%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Clean Word2Vec	BiLSTM - custom	96.8%	96.8%	96.9%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Lem Word2Vec	BiLSTM - custom	96.6%	96.6%	96.7%
SHARE/CLEF Uncertainty	SciSpacy	Wiki FastText	BiLSTM - custom	96.4%	96.0%	96.8%
SHARE/CLEF Uncertainty	SciSpacy	Wiki GloVe	BiLSTM - custom	97.2%	97.2%	97.2%
SHARE/CLEF Uncertainty	SciSpacy	Wiki Word2Vec	BiLSTM - custom	96.7%	96.7%	96.8%
SHARE/CLEF Uncertainty	BBPE	MIMIC Word2Vec	BiLSTM - non custom	94.1%	94.1%	94.3%
SHARE/CLEF Uncertainty	WordPiece	BioBERT	BioBERT	94.2%	94.2%	94.3%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC FastText	CNN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC GloVe	CNN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	BBPE	MIMIC Word2Vec	CNN	88.4%	85.4%	91.9%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Word2Vec	CNN	87.5%	84.2%	91.4%
SHARE/CLEF Uncertainty	SciSpacy	Wiki FastText	CNN	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	Wiki GloVe	CNN	87.5%	84.1%	91.4%
SHARE/CLEF Uncertainty	SciSpacy	Wiki Word2Vec	CNN	87.5%	84.2%	91.4%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Word2Vec	RNN - custom	96.5%	96.5%	96.6%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC FastText	RNN - non custom	88.4%	89.4%	91.4%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC GloVe	RNN - non custom	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	BBPE	MIMIC Word2Vec	RNN - non custom	87.0%	88.9%	91.1%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Word2Vec	RNN - non custom	87.1%	88.9%	91.1%
SHARE/CLEF Uncertainty	SciSpacy	Wiki FastText	RNN - non custom	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	Wiki GloVe	RNN - non custom	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	Wiki Word2Vec	RNN - non custom	86.7%	82.8%	91.0%
SHARE/CLEF Uncertainty	SciSpacy	BoW	SVC	91.7%	92.1%	91.3%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC FastText	SVC	88.0%	92.5%	85.8%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC GloVe	SVC	87.6%	92.7%	85.2%
SHARE/CLEF Uncertainty	BBPE	MIMIC Word2Vec	SVC	89.4%	92.8%	87.7%
SHARE/CLEF Uncertainty	SciSpacy	MIMIC Word2Vec	SVC	90.2%	93.0%	88.8%
SHARE/CLEF Uncertainty	SciSpacy	Wiki FastText	SVC	86.3%	92.1%	83.4%
SHARE/CLEF Uncertainty	SciSpacy	Wiki GloVe	SVC	87.1%	92.3%	84.5%
SHARE/CLEF Uncertainty	SciSpacy	Wiki Word2Vec	SVC	85.9%	92.0%	82.9%