

# Sanders

Atributo	Método	Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW - MNB	70.48	43.22	29.65	35.17	55.14	62.48	58.58	78.96	81.86	80.38
	BoW - SVM	76.03	55.45	<b>50.00</b>	<b>52.58</b>	67.33	57.12	<b>61.81</b>	81.83	86.90	84.29
	BoW - RF	75.09	61.62	30.70	40.98	70.00	46.09	55.59	77.09	92.77	84.21
	BoW - LR	77.08	66.46	37.54	47.98	75.17	49.62	59.78	78.51	93.25	85.24
Bigram	BoW - MNB	65.46	35.00	46.67	40.00	49.41	64.17	55.83	82.81	70.08	75.91
	BoW - SVM	75.39	60.45	37.54	46.32	72.05	40.28	51.67	77.55	93.17	84.65
	BoW - RF	71.28	48.45	21.93	30.19	74.56	26.03	38.59	72.87	94.33	82.22
	BoW - LR	75.55	74.11	29.12	41.81	76.01	37.37	50.10	75.61	<b>96.08</b>	84.62
Uni + Big	BoW - MNB	68.84	43.00	45.79	44.35	51.43	<b>71.82</b>	59.94	<b>83.14</b>	73.31	77.92
	BoW - SVM	76.89	60.57	44.74	51.46	72.73	52.68	61.10	80.01	90.53	84.95
	BoW - RF	73.81	59.15	22.11	32.18	76.68	36.75	49.69	74.50	95.25	83.61
	BoW - LR	<b>78.10</b>	<b>72.03</b>	39.30	50.85	<b>79.50</b>	48.70	60.40	78.54	94.61	<b>85.83</b>

POS Stanford											
Atributo	Método	Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+POS - MNB	71.93	45.86	12.63	19.81	61.19	55.28	58.09	75.43	89.77	81.98
	BoW+POS - SVM	76.22	56.10	48.42	51.98	66.95	59.88	63.22	82.00	86.82	84.34
	BoW+POS - RF	73.11	66.89	17.72	28.02	70.34	35.22	46.94	73.68	95.61	83.22
	BoW+POS - LR										
Bigram	BoW+POS - MNB										
	BoW+POS - SVM										
	BoW+POS - RF										
	BoW+POS - LR										
Uni + Big	BoW+POS - MNB										
	BoW+POS - SVM										
	BoW+POS - RF										
	BoW+POS - LR										

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Atributo	Método	Opinion Lexicon									
		Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+Lex - MNB	72.84	50.80	33.51	40.38	59.15	63.86	61.41	79.62	84.14	81.82
	BoW+Lex - SVM	76.38	56.44	50.00	53.02	66.84	60.80	63.67	82.38	86.46	84.37
	BoW+Lex - RF	75.60	62.21	33.51	43.56	67.91	52.83	59.43	78.36	91.13	84.26
	BoW+Lex - LR	77.72	65.83	41.23	50.70	74.68	53.75	62.51	79.68	92.29	85.52
Bigram	BoW+Lex - MNB	64.30	33.43	<b>58.60</b>	42.57	53.32	66.46	59.17	<b>85.10</b>	65.04	73.73
	BoW+Lex - SVM	75.52	67.19	37.72	48.31	64.43	49.92	56.26	78.38	90.81	84.14
	BoW+Lex - RF	72.30	74.13	18.60	29.73	65.45	33.08	43.95	72.92	94.77	82.42
	BoW+Lex - LR	75.74	<b>77.03</b>	28.25	41.34	74.93	40.28	52.39	75.74	<b>95.81</b>	84.60
Uni + Big	BoW+Lex - MNB	69.57	44.38	51.23	47.56	52.63	<b>73.51</b>	61.34	84.42	72.71	78.13
	BoW+Lex - SVM	78.15	63.35	49.12	<b>55.34</b>	73.08	58.19	<b>64.79</b>	81.48	89.97	85.51
	BoW+Lex - RF	74.53	69.74	23.86	35.56	72.70	41.19	52.59	75.04	94.77	83.76
	BoW+Lex - LR	<b>78.85</b>	70.06	42.28	52.74	<b>76.30</b>	56.20	64.73	80.32	93.09	<b>86.23</b>

Atributo	Método	SemEval2015									
		Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+Lex - MNB	71.44	46.17	30.70	36.88	58.05	61.87	59.90	78.57	83.22	80.83
	BoW+Lex - SVM	75.68	52.65	48.77	50.64	68.52	56.66	<b>62.03</b>	81.72	86.78	84.17
	BoW+Lex - RF	75.85	66.92	31.23	42.58	74.11	44.72	55.78	76.84	94.13	84.61
	BoW+Lex - LR	76.65	64.11	36.67	46.65	74.00	51.00	60.38	78.44	92.45	84.87
Bigram	BoW+Lex - MNB	61.76	30.66	<b>59.12</b>	40.38	51.19	<b>59.26</b>	54.93	<b>84.29</b>	63.00	72.11
	BoW+Lex - SVM	74.40	68.85	29.47	41.28	72.36	35.68	47.79	75.03	94.73	83.74
	BoW+Lex - RF	71.85	72.59	17.19	27.80	75.40	21.59	33.57	71.62	97.40	82.55
	BoW+Lex - LR	74.37	<b>78.95</b>	23.68	36.44	<b>84.62</b>	28.64	42.79	73.46	<b>97.84</b>	83.91
Uni + Big	BoW+Lex - MNB	69.16	42.92	48.95	45.74	52.40	73.51	61.19	84.17	72.63	77.98
	BoW+Lex - SVM	77.32	63.07	46.14	<b>53.29</b>	72.84	52.99	61.35	80.17	90.77	85.14
	BoW+Lex - RF	74.40	72.68	23.33	35.33	75.40	35.68	48.44	74.40	96.12	83.88
	BoW+Lex - LR	<b>77.67</b>	72.67	37.89	49.83	76.00	49.46	59.93	78.40	94.09	<b>85.53</b>

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Atributo	Método	SenticNet									
		Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+Lex - MNB	71.66	45.17	27.89	34.49	59.05	60.95	59.98	78.26	84.42	81.22
	BoW+Lex - SVM	75.66	55.36	48.95	51.96	66.06	56.05	<b>60.65</b>	81.48	86.86	84.08
	BoW+Lex - RF	73.81	62.69	29.47	40.10	63.62	43.64	51.77	76.31	91.77	83.33
	BoW+Lex - LR	76.62	67.11	35.79	46.68	73.41	49.46	59.10	78.07	93.01	84.89
Bigram	BoW+Lex - MNB	60.74	31.02	<b>56.49</b>	40.05	46.30	<b>58.50</b>	51.69	83.68	62.29	71.42
	BoW+Lex - SVM	72.73	63.72	25.26	36.18	71.71	27.57	39.82	73.44	95.33	82.96
	BoW+Lex - RF	70.80	50.39	22.63	31.23	80.89	19.45	31.36	71.90	95.17	81.91
	BoW+Lex - LR	73.11	<b>80.56</b>	20.35	32.49	<b>85.06</b>	22.66	35.79	72.18	<b>98.28</b>	83.23
Uni + Big	BoW+Lex - MNB	68.71	43.55	49.12	46.17	51.08	72.13	59.81	<b>83.71</b>	72.27	77.57
	BoW+Lex - SVM	<b>77.35</b>	64.63	44.56	<b>52.75</b>	72.90	51.91	60.64	79.81	91.45	85.24
	BoW+Lex - RF	74.02	69.10	21.58	32.89	72.54	38.44	50.25	74.45	95.25	83.58
	BoW+Lex - LR	77.32	72.95	35.96	48.18	76.46	48.24	59.15	77.84	94.33	<b>85.30</b>

Atributo	Método	Emoticon Sentiment Lexicon									
		Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+Emoticon - MNB	71.28	44.78	26.32	33.15	58.14	60.18	59.14	77.83	84.42	80.99
	BoW+Emoticon - SVM	75.95	56.68	49.12	<b>52.63</b>	67.17	54.82	60.37	81.22	87.57	84.28
	BoW+Emoticon - RF	74.37	62.74	28.95	39.62	65.11	44.87	53.13	76.77	92.41	83.87
	BoW+Emoticon - LR	76.97	68.11	35.96	47.07	74.72	50.69	60.0	78.20	93.17	85.03
Bigram	BoW+Emoticon - MNB	60.82	28.70	<b>55.44</b>	37.82	49.49	51.91	50.67	83.04	64.36	72.52
	BoW+Emoticon - SVM	73.11	67.97	27.54	39.20	73.53	26.80	39.28	73.44	95.57	83.06
	BoW+Emoticon - RF	72.14	70.12	20.18	31.34	72.55	22.66	34.54	72.22	96.88	82.75
	BoW+Emoticon - LR	72.79	<b>79.69</b>	17.89	29.23	<b>82.86</b>	22.21	35.02	72.01	<b>98.48</b>	83.19
Uni + Big	BoW+Emoticon - MNB	67.77	42.04	46.32	44.07	49.57	<b>71.36</b>	58.51	<b>83.18</b>	71.71	77.02
	BoW+Emoticon - SVM	76.81	64.25	43.51	51.88	71.77	50.23	59.10	79.29	91.33	84.89
	BoW+Emoticon - RF	73.94	65.82	22.63	33.68	73.95	37.83	50.05	74.44	95.05	83.49
	BoW+Emoticon - LR	<b>77.91</b>	73.20	37.37	49.48	78.41	48.39	59.85	78.30	94.85	<b>85.78</b>

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		Opinion Lexicon e Emoticon Sentiment Lexicon									
Atributo	Método	Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+Lex+Emoticon - MNB	73.24	50.56	31.40	38.74	62.17	62.17	62.17	78.85	85.66	82.11
	BoW+Lex+Emoticon - SVM	76.95	56.29	51.05	53.54	68.33	60.80	<b>64.34</b>	<b>82.91</b>	87.06	84.93
	BoW+Lex+Emoticon - RF	75.76	63.73	32.98	43.47	67.82	53.91	60.07	78.40	91.21	84.32
	BoW+Lex+Emoticon - LR	78.15	65.87	43.68	52.53	75.05	54.82	63.36	80.29	92.09	85.78
Bigram	BoW+Lex+Emoticon - MNB	66.43	36.13	<b>52.11</b>	42.67	54.09	62.79	58.11	82.39	70.64	76.06
	BoW+Lex+Emoticon - SVM	75.79	67.18	38.07	48.60	65.74	50.84	57.34	78.50	90.89	84.24
	BoW+Lex+Emoticon - RF	73.22	73.65	19.12	30.36	70.90	35.07	46.93	73.43	95.49	83.01
	BoW+Lex+Emoticon - LR	75.50	<b>77.08</b>	25.96	38.85	74.37	40.89	52.77	75.53	<b>95.81</b>	84.47
Uni + Big	BoW+Lex+Emoticon - MNB	70.59	45.83	45.26	45.54	54.22	<b>71.82</b>	61.79	82.81	76.03	79.28
	BoW+Lex+Emoticon - SVM	77.64	61.56	48.60	<b>54.31</b>	71.46	57.89	63.96	81.47	89.41	85.26
	BoW+Lex+Emoticon - RF	75.31	68.78	24.74	36.39	76.17	45.02	56.59	75.63	94.73	84.11
	BoW+Lex+Emoticon - LR	<b>78.56</b>	69.03	42.63	52.71	<b>76.55</b>	54.98	63.99	80.03	92.89	<b>85.98</b>

		Opinion Lexicon, SemEval2015 e SenticNet									
Atributo	Método	Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+Lex - MNB	73.56	51.03	30.35	38.06	63.17	60.95	62.04	78.71	86.70	82.51
	BoW+Lex - SVM	75.71	54.49	50.00	52.15	66.79	57.58	61.84	81.82	86.30	84.00
	BoW+Lex - RF	75.50	65.44	31.23	42.28	70.68	47.63	56.91	77.11	92.85	84.25
	BoW+Lex - LR	77.78	64.44	42.28	51.06	75.48	54.21	63.10	79.88	92.01	85.52
Bigram	BoW+Lex - MNB	67.77	37.06	46.49	41.25	55.63	61.26	58.31	81.15	74.31	77.58
	BoW+Lex - SVM	75.90	67.57	39.47	49.83	66.17	47.93	55.60	78.42	91.49	84.46
	BoW+Lex - RF	72.41	65.31	16.84	26.78	65.87	38.13	48.30	73.51	94.01	82.50
	BoW+Lex - LR	75.34	<b>75.83</b>	28.07	40.97	69.21	44.41	54.10	76.13	94.17	84.19
Uni + Big	BoW+Lex - MNB	71.98	48.08	46.14	47.09	56.29	<b>70.60</b>	62.64	<b>82.97</b>	78.23	80.53
	BoW+Lex - SVM	78.40	64.43	<b>50.53</b>	<b>56.64</b>	72.11	58.19	<b>64.41</b>	81.87	80.01	85.75
	BoW+Lex - RF	75.47	73.60	22.98	35.03	<b>77.62</b>	43.03	55.37	75.33	<b>95.88</b>	84.37
	BoW+Lex - LR	<b>78.34</b>	69.01	42.98	52.97	74.63	54.06	62.70	80.09	92.73	<b>85.95</b>

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		Opinion Lexicon, Emoticon Sentiment Lexicon e POS Stanford									
Atributo	Método	Acc. (%)	Classe Positiva			Classe Negativa			Classe Neutra		
			Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)	Precision (%)	Recall (%)	F1 (%)
Unigram	BoW+POS+Lex+Emoticon - MNB										
	BoW+POS+Lex+Emoticon - SVM										
	BoW+POS+Lex+Emoticon - RF										
	BoW+POS+Lex+Emoticon - LR										
Bigram	BoW+POS+Lex+Emoticon - MNB										
	BoW+POS+Lex+Emoticon - SVM										
	BoW+POS+Lex+Emoticon - RF										
	BoW+POS+Lex+Emoticon - LR										
Uni + Big	BoW+POS+Lex+Emoticon - MNB										
	BoW+POS+Lex+Emoticon - SVM										
	BoW+POS+Lex+Emoticon - RF										
	BoW+POS+Lex+Emoticon - LR										