

BAB VI

KESIMPULAN DAN SARAN

Tujuan utama dalam tesis ini adalah melakukan deteksi emosi dari teks bahasa Indonesia. Sejumlah proses telah dilakukan untuk mencapai tujuan tersebut dimulai dari pengumpulan data hingga melakukan percobaan deteksi emosi. Pada bagian ini kesimpulan dari percobaan – percobaan tersebut diberikan. Sejumlah saran juga diusulkan untuk dilakukan pada penelitian selanjutnya.

6.1. Kesimpulan

Permasalahan yang diselesaikan dalam penelitian ini adalah bagaimana melakukan deteksi emosi dari teks bahasa Indonesia. Hasil dari penelitian ini adalah model deteksi emosi dari teks bahasa Indonesia. Model yang dikembangkan dalam penelitian ini terdiri dari dua yaitu model deteksi *keyword spotting* dan model deteksi *learning-based*. Berikut diberikan kesimpulan yang diperoleh dari hasil penelitian :

1. Permasalahan pertama dari penelitian ini adalah bagaimana melakukan deteksi emosi dari teks bahasa Indonesia menggunakan pendekatan *keyword-spotting*. Untuk menjawab persoalan ini maka telah dikembangkan model deteksi *keyword-spotting*. Dua jenis leksikon juga dikembangkan yaitu leksikon *baseLex* dan *SoALex*. Hasil evaluasi menunjukkan bahwa unjuk kerja model deteksi *keyword-based* menggunakan *SoALex* memberikan tingkat akurasi mencapai 79,42 %

pada tingkat *superordinate*, 76, 29 % pada tingkat *basic* positif dan 68,84 % pada tingkat *basic* negatif.

2. Persoalan kedua dalam penelitian ini adalah deteksi emosi dari teks bahasa Indonesia menggunakan pendekatan *learning-based*. Persoalan ini telah diselesaikan dengan menggunakan metode *Naive Bayes Classifier*. Model ini menggunakan ciri *unigram* dan *bigram* dengan pembobotan *tfidf*. Hasil percobaan menunjukkan bahwa ciri *unigram* lebih baik dari ciri *bigram* dengan rata – rata tingkat akurasi mencapai 83,61 %.
3. Berdasarkan empat percobaan menggunakan 500 tweet maka dapat disimpulkan bahwa metode *Naive Bayes Classifier* dengan ciri *unigram* dan pembobotan *tfidf* lebih baik untuk deteksi pada tingkat *superordinate*. Pada tingkat *basic*, pendekatan *keyword-spotting* + *SoALex* lebih baik untuk deteksi jenis emosi pada kelas emosi negatif. Sedangkan *Naive Bayes Classifier* lebih baik untuk deteksi pada kelas emosi positif.

6.2. Saran

Berdasarkan hasil yang diperoleh dalam penelitian ini maka dapat diusulkan beberapa hal untuk memperbaiki model deteksi. Pertama yang dapat dilakukan yaitu menambahkan *rule-based* dalam model deteksi. Selain itu, bobot untuk setiap jenis pada penelitian ini hanya menggunakan nilai tegas (*crisp*), sedangkan emosi cenderung tidak tegas (*non-crisp*). Oleh karena itu pada penelitian selanjutnya penentuan bobot dapat menggunakan logika Fuzzy.

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