

## BAB VI

### KESIMPULAN DAN SARAN

#### A. Kesimpulan

Dari penelitian ini dapat diperoleh beberapa kesimpulan yaitu :

1. Pengenalan emosi wajah menggunakan autoencoder dengan convolutional neural network yang telah dibangun mendapatkan hasil yang baik.
2. Pelatihan yang dilakukan menggunakan 1500 epoch menunjukkan nilai loss dan akurasi saat pelatihan tidak mengalami perubahan yang terlalu signifikan
3. Hasil pelatihan dataset untuk pengenalan wajah menggunakan KDEF dataset menunjukkan akurasi sebesar 99,55%
4. Hasil pengujian dataset untuk pengenalan emosi wajah menggunakan KDEF dataset menunjukkan akurasi sebesar 81,77%

#### B. Saran

Adapun saran dari penulis untuk penelitian berikutnya adalah :

1. Penambahan dataset yang lebih banyak akan menghasilkan hasil yang lebih variatif.
2. Hasil dari penelitian pengenalan emosi wajah dapat diimplementasikan ke aplikasi mobile seperti android dan ios sehingga dapat dimanfaatkan secara real time.

3. Modifikasi pada arsitekur jaringan sehingga memungkinkan mendapatkan hasil yang lebih baik.



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