**Abstract**

Human emotion recognition plays an important role in the interpersonal relationship and in the psychological area. Also, Human face plays a prodigious role for automatic recognition of emotion in the field of identification of human emotion and the interaction between human and computer for some real application like driver state surveillance, personalized learning, health monitoring etc. In this article we have tried to build a model designed for emotion detection using facial expression and CNN model. In real life application, detection of emotion is very challenging task. Facial expression recognition system requires to overcome the human face having multiple variability such as color, orientation, expression, posture and texture so on. In our model we have tried to collect as much data as we can with many labels and many contribution ideas on the related work.

1. **Introduction**
2. **Background**
3. **Related Work**
   1. **Resources**

Resource 1:

Date:

Problem:

Solution:

Advantages:

* ADV\_.
* ADV\_.

Disadvantages:

* DIS\_.
* DIS\_.
* DIS\_.

Resource 2:

Date:

Problem:

Solution:

Advantages:

* ADV\_.
* ADV\_.

Disadvantages:

* DIS\_.
* DIS\_.
* DIS\_.
  1. **The main differences between related works and our Project (Our Contribution).**
* Add early stopping.
* Gray scaling.
* Improve the model (more deeper).
* Dataset combinations to improve the model (try to increase the number of labels).

1. **Proposed Emotion Recognition**
2. **Testing and Results**

**Conclusion**

**References**