Abstract— Employees of any company need to know whether their employees are happy or sad or they have any problem in their working environment. There should be some mechanism to handle this information about the employee. Employee chatting messages could be analyzed using sentiment analysis and employee mood detection is retrieved based on text analysis. Also, Employee facial expressions can be detected using Image Processing on employee images taken through Web Camera while an employee is chatting with colleagues. Using Image Processing, emotion of employee such as Happy, Angry, Sad or Normal is detected. Employee analysis report is shown to company management to find whether the employee is satisfied with company or employee is facing some problem in the working environment.

I. INTRODUCTION

Social Networking Portal for Employees of any company is being used extensively nowadays in corporate world. Companies need to know whether their employees are happy or sad or they have any problem in their working environment.

There should be some mechanism to handle this information about employee. Employee chatting messages could be analyzed using sentiment analysis and employee mood detection is retrieved based on text analysis. Also, Employee facial expressions can be detected using Image Processing on employee images taken through Web Camera while employee is chatting with colleagues. Using Image Processing, emotion of employee such as Happy, Angry, Sad or Normal is detected. Employee analysis report is shown to company management to find whether employee is satisfied with company or employee is facing some problem in working environment. Image processing is a method to convert an image into digital form and perform some operations on it, in order to get an enhanced image or to extract some useful information from it. In this technique we analyze an employee’s expression, when they are talking with any person.

II. LITERATURE SURVEY

A. Employee Monitoring and HR Management Using RFID.

Author: S. Srinivasan, Dr. H. Ranganathan, R. Srivel.

This paper states that using RFID person or object are identified over radio frequencies. By using RFID there is no manually tags or label scanned for extracting information tags are used. Tags are unique. It is tracking application it is used inside the campus or offices.

B. New Distances Combination for Facial Expression Recognition from image sequence.

Author: Fatima Zahra Salam, Abdellah Madani, and Mohamed Kissi.

This paper illustrate that recognize from image sequence take the first and last frame of the facial expression it represent emotion and neutral state. These methods calculate the distances there are six distances of the eleven points. These points are calculated by support descent method (SDM). By calculating these points we get the emotion of the face whether the human is happy or sad.

C. Image Data Mining From Financial Document Based On Wavelet Feature

Author: O.El Badawy, M.R. El-Sakka, K.Hassanein, M. S.Kamel

We present a framework for clustering and classifying cheque images according to their payee-line content. The features used in the clustering and classification processes are extracted from the wavelet domain by means of thresholding and counting of wavelet coefficients. The feasibility of this framework is tested on a database of 2620 cheque images. This database consists of cheques from 10 different accounts. Each account is written by a different person.

D. Customer Satisfaction Factor Extraction Method Using Text Mining

Author: Yoko Kobayashi; Kazuhiko Tsuda

Specifically, the number of the part-time employees, who were atypical, the just-in-time employees, and the special employees increased. An atypical employment pattern is causing instability, given the case that payment and recognition are not commensurate with work and that the strong high production causes a negative image. It is disturbed by the atypical employment issues at most companies. Therefore, education by an enterprise is needed; this is ideally achieved in the short term through high efficiency.

E. Free Text Mining of TCM Medical records Based On Conditional Random Fields

Author: Qiyu Jiang; Hongyi Li; Jiafen Liang

Medical records of Traditional Chinese Medicine (TCM) are usually free text and unstructured data, how to extract medical terms from TCM medical records based on conditional random fields is an interesting problem. TCM medical records obtained from dermatology in Guangdong Provincial Hospital of Chinese Medicine are segmented to
single words and labeled with grammatical properties of words by TCM expert, and divided into training sets and testing sets.

**III. PROPOSED SYSTEM**

To identify emotion from the facial expression there are three steps they are: face detection, face extraction, classification of the emotions. Firstly we will detect the face by using viola Jones algorithm viola Jones algorithm is used for detecting the faces. Viola Jones is just giving a thousand no of faces to a computer or a digital camera that faces might be know faces or unknown faces to the computer once it get trained to identify whether it is human face or not then it will extract all the features and then classify.

This system is used in maintaining employee data with the help of a database. Live Images from Web Camera and Text Messages will be sent while Employee is chatting with the colleague. With the help of image processing and face recognition algorithm we analyze mood of an employee. In this system we use NLP algorithm for sentiment of messages for emotion analysis. A Report of Employee based on Messages and Mood will be generated. In image processing we use NLP algorithm. By this we will get to known mood of employee text processing the friend will chat with this another friend by that we will known the felling of the employee whether he is happy or not with his work.

**IV. CONCLUSION**

In this system with the help of image processing and face recognition algorithm we analyze mood of an employee. This system will use NLP algorithm for sentiment of messages for emotion analysis. A Report of Employee based on Messages and Mood will be generated. In image processing we use NLP algorithm. By this we will get to known mood of employee text processing the friend will chat with this another friend by that we will known the felling of the employee whether he is happy or not with his work.

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