

## **RESEARCH PROPOSAL**

### **PHYSIOLOGICAL TRAITS OF BIOMETRIC RECOGNITION WITH MACHINE LEARNING AND DEEP LEARNING APPROACHES**

**R.Raja Sekar, M.E. (CSE)**

#### **ABSTRACT:**

Biometrics is the art and expertise of automatic recognition accomplished through Computers, which gain and investigate physiological and behavioral uniqueness of human being. The principle behind biometrics research is to provide computer sophisticated intellect to robotically identify and recognize individuals through their digital biometric signs. Thus, biometrics study is essential in terms of public and private security of every individual. In this research proposal am going to experiment recognition accuracy of various physiological biometric traits like Fingerprint, Face and Iris with several machine learning techniques and deep learning techniques such as LSTM (Long Short Term Memory) and CNN (Convolutional Neural Network). To overcome the challenges faced in traditional techniques this proposal can act as art of work in reducing the time of analysis and thereby increasing the accuracy rate of recognition

**Keywords:** Biometric, Fingerprint, Face Recognition, Iris Recognition, Machine Learning, Deep Learning.