UNDERTAKING

We declare that the work presented in this project titled "**Person Identification System Using Machine Learning**", submitted to the Department of Electronics & Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, for the award of the **Bachelor of Technology** degree in *Electronics and Communication Engineering* is our original work. We have not plagiarized or submitted the same work for the award of any other degree. In case this undertaking is found incorrect, we accept that our degree may be unconditionally withdrawn.

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CERTIFICATE

This is to certify that the work contained in the project titled **"Person Identification System Using Machine Learning"**, submitted by **Deepanjan Saha**, **Aman Agarwal** and **Pawan Kumar Thapa** in the partial fulfilment of the requirement for the award of Bachelor of Technology in Electronics & Communication Engineering to the Electronics & Communication Engineering Department, Motilal Nehru National Institute of Technology, Allahabad, is a bonafide work of the students carried out under my supervision.

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ABSTRACT

Our project on Person Identification System aims to design a model which can detect as well as identify the person from still image or video with high degree of accuracy. Face (facial) recognition is the identification of humans by the unique characteristics of their Faces. Face recognition technology is the least intrusive and fastest bio-metric technology. It works with the most obvious individual identifier the human face. With increasing security needs and with advancement in technology extracting information has become much simpler. This project aims on building an application based on face recognition using different algorithms and comparing the results. The basic purpose being to identify the face and retrieving information stored in database. It involves two main steps. First to identify the distinguishing factors in image n storing them and Second step to compare it with the existing images and returning the data related to that image. The various algorithms used for face detection are PCA Algorithm and Gray Scale Algorithm.

Table of Contents

Undertaking i

Certificate ii

Acknowledgement iii

Abstract iv

Table of Contents v

List of Figures vii

List of Tables viii

Chapter 1: Introduction 1-5

1.1: Introduction 1
1.2: Motivation 1
1.3: Methodology 2
1.4: Dataset 2
1.4.1: Cambridge ORL Dataset 2
1.4.2: MNNIT Faces Dataset 3
1.5: Workflow 3
1.6: Application 3
1.6.1: Biometrics 3
1.6.2: Face Detection 4
1.6.3: Face Recognition 4

Chapter 2: Preprocessing 6-8

2.1: Introduction 6
2.2: Histogram Equalization 6
2.3: Blur Filters 7
2.3.1: Median Filter 7
2.3.2: Resizing 8

Chapter 3: Face Detection 9-15

3.1: Introduction 9
3.2: Voila Jones Algorithm 9
3.2.1: Haar Features 9
3.2.2: Integral Image 9
3.3.3: Ada Boost 10
3.3.4: Cascading 10

3.3: Haar Cascade 11
3.4: LBP Cascade 11
3.5: Face Detection Result 14
3.6: Summary of Face Detection Algorithm used 15

Chapter 4: Feature Extraction 16

4.1: Introduction 16
4.2: Deep Metric Learning 16

Chapter 5: Learning Algorithms 17-24

5.1: Introduction 17
5.2: Machine Learning 17
5.3: Support Vector Machines 18
5.3.1: Motivation 18
5.3.2: Result 18
5.4: Random Forest 19
5.4.1: Result 20
5.5: Decision Trees 20
5.5.1: Result 21
5.6: Logistic Regression 22
5.6.1: Result 22
5.7: Naïve Bayes 23
5.7.1: Result 23
5.8: Summary of trained models 24

Chapter 6: Results and Conclusion 25-27

6.1: Results 25
6.2: Conclusion 27
6.3: Future Scope 27

References 28-29

List of Figures

Fig 1.1: Workflow Followed 3

Fig 2.1: Normalized histogram for pixel intensities 6

Fig 2.2: Formula for Histogram Equalization 6

Fig 3.1: Formula for integral image 10

Fig 3.2: Applying LBP operation 12

Fig 3.3: Circular LBP 13

Fig 3.4: Dividing image into multiple grids 13

Fig 3.5: Euclidean Distance formula 14

Fig 3.6: Face detection result 1 15

Fig 3.7: Face detection result 2 15

Fig 5.1: SVM result 19

Fig 5.2: Random Forest result 20

Fig 5.3: Decision Tree result 21

Fig 5.4: Logistic Regression result 23

Fig 5.5: Naïve Bayes result 24

List of Tables

Table 3.1: Face Detection algorithm summary 15

Table 5.1: Training model used and accuracy 24