IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 6, June 2022
Impact Factor: 6.252

Face Authentication in Chat Application using Cryptography

Supriya B C[1], Thanuja K[2], Thanuja R[3], Prof. Prathibha R[4]
Final Year Student, Department of Information Science and Engineering[1,2,3]
Assistant Professor, Department of Information Science and Engineering[4]
S J C Institute of Technology, Chikkaballapur, Karnataka, India

Abstract: *Data plays a vital role in the world of computer network. There are many platforms to share data between a group of devices or individual or a group of peoples. Every person in the community needs him Information to keep safe from a third party. Here we have created a simple chat application with face authentication that can be used once to view end-to-end encryption authentication and shared message. This takes credentials to register and requires Face snap to authenticate the user. There are face snaps. Trained using the KNN Classifier. These face snaps are classified using the Haar cascade classifier algorithm for detection. User's face can be identified and logged in only if the user matches the credentials and can send messages. The receiving user is identified and the message is viewed.*

Keywords: Big four, Haar cascade classifier, Advance encryption standard, k-nearest neighbor, Authentication

REFERENCES

[1]. "Analyzing of Different Features Using Haar Cascade Classifier," Computerdoi: 10.1109/ICECOS.2018.8605266..
[2]. "Face Recognition Using Haar Cascade Classifier", ISSN:2349-5162, Vol.3,
[3]. "Face recognition system based on the improved LBPH," doi: 10.1109/ICCCIS48478.2019.8974493.
[4]. "Face recognition system based on the improved LBPH,"doi: 10.1109/ICCCIS48478.2019.8974493.
[5]. "A KNN Classifier for Face Recognition," 2021 International doi: 10.1109/CISCE52179.2021.9445908.
[6]. Selection: the applicant's point of view," pp. 1–11.
[7]. Wirdiani, Ayu & Hridayami, Praba & Widiari, Ayu & Rismawan, Komang & Candradinata, Putu & Jayantha, I. (2019). Face Identification Based on K-Nearest Neighbor. Scientific Journal of Informatics. 6. 150-159. 10.15294/sji.v6i2.19503.
[8]. N. Su, Y. Zhang and M. Li, "Research on Data Encryption Standard Based on AES Algorithm in Internet of Things Environment," 2019 IEEE 3rd Information Technology, Networking, Electronic and Automation Control Conference (ITNEC), 2019, pp. 2071-2075, doi: 10.1109/ITNEC.2019.8729488.
[9]. M Pitchaiah, Philemon Daniel, Praveen et al., "Implementation of Advanced Encryption Standard Algorithm," International Journal of Scientific and Engineering Research, ISSN: 2229-5518, Vol. 3, Issue 3, March-2012.
[10]. M. Khan, S. Chakraborty, R. Astya and S. Khepra, "Face Detection and Recognition Using OpenCV," 2019 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS), 2019, pp. 116-119, doi: 10.1109/ICCCIS48478.2019.8974493.
[11]. S. Jayanthy, J. B. Anishkka, A. Deepthi and E. Janani, "Facial Recognition And Verification System For Accessing Patient Health Records," 2019 International Conference on Intelligent Computing and Control Systems (ICCS), 2019, pp. 1266-1271, doi: 10.1109/ICCS45141.2019.9065469.
[12]. Abhishek Pratap Singh, Sunil Kumar S Manvi,Pratik Nimbal, Gopalkrishna Shyam et al., "Face Recognition System based on LBPH algorithm," International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Vol.8, Issue 5S, May, 2019.
[13]. Varun Garg, Kritika Garg et al., "Face Recognition Using Haar Cascade Classifier", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.3, Issue 12, page no.140-142, December-2016.