IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, June 2022

Face Match Detection using AI and ML

Mukund Subhash Khapale¹, Ashutosh Atul Dole², Kiran Dattatraya Mali³, Prashant Mahadeo Khurd⁴, Prof. Vanita D. Jadhav⁵

UG Scholar's, Department of Computer Science and Engineering^{1,2,3,4}
Guide, Department of Computer Science and Engineering⁵
SVERI's College of Engineering, Pandharpur, India

Abstract: Artificial intelligence and machine learning are the part of computer science that are correlated with each other. Application of AI & ML is increasing rapidly. Face detection has over time proven to be the least intrusive and fastest form of biometric verification. Facial Detection is a category of biometric software that maps an individual's facial features and stores the data as a face print. The software uses deep learning algorithms to compare a live captured image to the stored face print to verify one's identity.

Keywords: Python, OpenCV, TensorFlow, Face detection, Feature extraction, Face recognition

REFERENCES

- [1]. Siamese Neural Networks for One-shot Image Recognition by Gregory Koch GKOCH, Richard Zemel ZEMEL, Ruslan Salakhutdinov.
- [2]. Johnson, R.A., and Wichern, D.W. (1992) Applied Multivariate Statistical Analysis. Prentice Hall. p356-395
- [3]. Brunelli, R. and Poggio, T. (1993), Face Recognition: Features versus Templates. IEEE Transactions on Pattern Analysis and Machine Intelligence, 15(10):1042-1052
- [4]. Baron, R. J. (1981). Mechanisms of human facial recognition. International Journal of Man Machine Studies, 15:137-178
- [5]. Human and Machine Vision, Proceedings of Workshop on Motion: Representation and Analysis (pp. 151-155) Charleston, SC; May 7-9
- [6]. Goldstein, A.J., Harmon, L.D., and Lesk, A.B. (1971). Identification of human faces. In Proc. IEEE, Vol. 59, page 748

DOI: 10.48175/IJARSCT-5038

[7]. Development, Department of Psychology, Birkbeck College.