

Skin Disease Classification

Prof. Poonam Hadke¹, Ghanshyam Chaudhari², Deep Kukkadgaonkar³, Sagar Dhadge⁴

Faculty, Department of Computer Engineering¹

Students, Department of Computer Engineering^{2,3,4}

NBN Sinhgad School of Engineering, Pune, Maharashtra, India

Abstract: *The proposed structure contains various disorders, for instance, Atopic Dermatitis, Nail parasite disease, Psoriasis ailment acknowledgments and Ringworm affliction stages conjectures. High speed of passings on account of steady disorders, for instance, Dermatitis, Nail development contamination, Psoriasis disease IDs and Ringworm disease need to cultivate genuine investigation system which serves to trained professionals. Some unsatisfactory investigation prompts human passings so we need to manage exact assurance of various skin diseases. Many works is presently ruined different sicknesses yet there isn't any reassuring game plan found that gives definite assurance for in all cases. The proposed structure involves various contaminations like Dermatitis, Nail development affliction, Psoriasis ailment area and Ringworm disease recognizable pieces of proof and stages assumptions. We are endeavoring to encourage structure for multi disease ID and stages assumptions gives early acknowledgment and saves lots of life's by reducing death rate by skin disorders. In this paper we used convolutional neural network for disease identification. We get the 94.4% accuracy on 100 epochs. We are also recommending the hospital by using KNN algorithm.*

Keywords: Multi Disease Detection, Convolutional Neural Network, Neural Network, Deep Learning, KNN.

REFERENCES

- [1]. Jainesh Rathod, Vishal Waghmode, Aniruddh Sodha, Dr. Prasenjit Bhavathankar "Diagnosis of skin diseases using Convolutional Neural Networks" Proceedings of the 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018).
- [2]. Gavrilov, D. A., A. V. Melerzanov, N. N. Shchelkunov, and E. I. Zakirov. "Use of Neural Network-Based Deep Learning Techniques for the Diagnostics of Skin Diseases." Biomedical Engineering 52, no. 5 (2019): 348-352.
- [3]. Milton, Md Ashraful Alam. "Automated Skin Lesion Classification Using Ensemble of Deep Neural Networks" in ISIC 2018: Skin Lesion Analysis Towards Melanoma Detection Challenge. arXiv preprint arXiv:1901.10802 (2019).
- [4]. Kyamelia Roy, Sheli Sinha Chaudhuri, Sanjana Ghosh "Skin Disease detection based on different Segmentation Techniques" University of Engineering & Management Newtown, Kolkata, West Bengal, India (2019).
- [5]. Nida, Nudrat, Aun Irtaza, Ali Javed, Muhammad Haroon Yousaf, and Muhammad Tariq Mahmood. "Skin Lesions Classification Using Deep Learning Based on Dilated Convolution" International journal of medical informatics Telfer School of Management University of Ottawa (2020).