

IDEATION PHASE

LITERATURE SURVEY

DATE	24 SEPTEMBER 2022
TEAM ID	PNT2022TMID41426
PROJECT NAME	AI Based localization of skin disease with Erythema

Literature Survey:

S.no	TITLE&AUTHORS	YEAR	TECHNIQUE	PROPOSED SYSTEM
1.	Deep Learning Skin Lesion Classification & K Scott Mader	2019	Deep learning	The goal is to make a simple model that can go from an image (taken with a smartphone) to a prediction of how likely different skin-conditions are based on a picture of your skin.
2.	Multiclass Skin Lesion Classification Using a Novel Lightweight Deep Learning Framework for Smart Healthcare & Long Hoang,Suk-Hwan lee,Eung-joo-lee,Ki-ryong kwon	2022	EW-FCM segmentation technique	It explains how the EW and the first-order cumulative moment were combined to form the new EW-FCM segmentation technique and maintain their good characteristics in introduces the wide-ShuffleNet for skin lesion classification.

3.	Intelligent System for skin disease prediction using Machine Learning & Ahmed A. Elngar et al	2021	Machine Learning	It observes that most of the cases remain unnoticed because of the lack of better medical infrastructure and facilities. Hence it is devoted to solve this challenge.
4.	Skin Disease Detection & Prem J.Patil, J.Buchkule	2019	Image Processing Technique	It approach to detect the skin disease based on image processing .It helps to proper diagnosis of affected skin portion.

REFERENCES:

1. Rey-Barroso, L.; Peña-Gutiérrez, S.; Yáñez, C.; Burgos-Fernández, F.J.; Vilaseca, M.; Royo, S. Optical technologies for the improvement of skin cancer diagnosis: A review. *Sensors* **2021**, *21*, 252. [[Google Scholar](#)] [[CrossRef](#)]
2. Hosny, K.M.; Kassem, M.A.; Foad, M.M. Classification of skin lesions using transfer learning and augmentation with Alex-net. *PLoS*

ONE **2019**, *14*, e0217293. [[Google Scholar](#)] [[CrossRef](#)] [[PubMed](#)][[Green Version](#)]

3. Zicari, R.V.; Ahmed, S.; Amann, J.; Braun, S.A.; Brodersen, J.; Bruneault, F.; Wurth, R. Co-Design of a trustworthy AI System in healthcare: Deep learning based skin lesion classifier. *Front. Hum. Dyn.* **2021**, *3*, 40. [[Google Scholar](#)] [[CrossRef](#)]
4. Mishra, N.; Celebi, M. An overview of melanoma detection in dermoscopy images using image processing and machine learning. *arXiv* **2016**, arXiv:1601.07843. [[Google Scholar](#)]
5. World Health Organization. Radiation: Ultraviolet (UV) Radiation and Skin Cancer. Available online: [https://www.who.int/news-room/questions-and-answers/item/radiation-ultraviolet-\(uv\)-radiation-and-skin-cancer#:~:text=Currently%2C%20between%20%20and%203,skin%20cancer%20in%20their%20lifetime](https://www.who.int/news-room/questions-and-answers/item/radiation-ultraviolet-(uv)-radiation-and-skin-cancer#:~:text=Currently%2C%20between%20%20and%203,skin%20cancer%20in%20their%20lifetime) (accessed on 19 October 2021).
6. Jerant, A.F.; Johnson, J.T.; Sheridan, C.D.; Caffrey, T.J. Early detection and treatment of skin cancer. *Am. Fam. Physician* **2000**, *62*, 357–368. [[Google Scholar](#)]
7. Trufant, J.; Jones, E. Skin cancer for primary care. In *Common Dermatologic Conditions in Primary Care*; John, J.R., Edward, F.R., Jr., Eds.; Springer: Cham, Switzerland, 2019; pp. 171–208. [[Google Scholar](#)]