

Data availability statement

A total of 3297 dermoscopy images of skin cancer image ISIC archive are studied in this research which can be accessed from this link <https://www.kaggle.com/fanconic/skin-cancer-malignant-vs-benign>. The dataset was divided into two folders of train and test. There are two classes, benign and malignant, where a total of 1800 dermoscopy images are found benign and the rest 1497 images are malignant. All the images were in RGB format and have 224 x 224 pixels. However, all the rights of the Data are bound to the ISIC-Archive rights <https://www.isic-archive.com>. The ISIC Archive is an open source platform with publicly available images of skin lesions under Creative Commons licenses or CC BY-NC license. This type of license allows others to distribute, remix, adapt, and build upon the material in any medium or format for noncommercial purposes only, and only so long as attribution is given to the creator. Basically this license allows the creator to retain copyright whilst allowing others to copy and distribute and make use of their work non-commercially. This archive serves as a public resource of images for teaching, research, and for the development and testing of diagnostic artificial intelligence algorithms. Anyone can access ISIC archive and make use of the skin lesion images that it provides in their research work. ISIC-Archive contains a total of 69445 skin cancer dermoscopy images of two classes with necessary metadata. Interested researchers can go to the above link and access the images by clicking on 'Gallery' option. From this page, images can be downloaded with metadata by selecting required number of pictures. However, images of ISIC-Archive are in different pixel size. Therefore, if any researcher wants a small portion of labeled and resized dataset of ISIC-Archive, they might work with 'Skin Cancer: Malignant vs. Benign' dataset that we have employed. This is a labeled and resized dataset which is publicly visible and hence anyone can view and access the dataset.

The screenshot below shows how the images can be accessed via Gallery option and the licenses can be checked from the metadata.

