Dataset –

Here we have 7 different classes of skin cancer.

Melanocytic nevi (nv)

Melanoma (mel)

Benign keratosis-like lesions (bkl)

Basal cell carcinoma

Actinic keratoses

Vascular lesions

Dermatofibroma (df)

Steps –

1. importing libraries like matplotlib , seaborn , pandas and tensorflow and keras for modelling
2. loading the data
3. Creating dictionary for displaying more human-friendly labels like nv as Melanocytic nevi
4. Merge images from both folders into one dictionary
5. Making a coloum for their paths
6. Creating 2 new colums like cell type and index for it
7. Data cleaning only age has some values so simple use mean for it
8. Exploratory data analysis - Gender wise differentiability, Cell type affect on patients, Gender vs Cell Type and more get insights
9. Create Function to read and resize images
10. Pictorial representaiton of Images
11. split the data into train and test sets
12. Extract the image data and target labels for train and test sets
13. Creating the CNN Model with 2 pool layers
14. Train the model
15. Use the trained model to make predictions on the test data
16. Calculate the accuracy