#### **Date Project**

Dataset piele: <a href="https://www.kaggle.com/code/alexishzl/skin-cancer-isic/data">https://www.kaggle.com/code/alexishzl/skin-cancer-isic/data</a>

Dataset poze cu obiecte: <a href="https://www.kaggle.com/datasets/shamsaddin97/image-captioning-dataset-random-images">https://www.kaggle.com/datasets/shamsaddin97/image-captioning-dataset-random-images</a>

#### Cu datasetul din ISIC + poze normal skin:

Epoch 16/35

113/113 [====== Epoch 18/35 113/113 [====== Epoch 19/35

Epoch 21/35

```
Epoch 2/35
Fnoch 3/35
113/113 [===
  Epoch 5/35
Epoch 6/35
Epoch 7/35
  113/113 [===
Epoch 8/35
Epoch 9/35
Epoch 11/35
Epoch 13/35
Epoch 14/35
113/113 [=====
Epoch 15/35
```

## Am egalat numarul de poze, 300 de poze in fiecare folder:

```
Epoch 1/25
155/155 [===========] - 130s 818ms/step - loss: 2.0661 - accuracy: 0.2245 - val_loss: 2.1126 - val_accuracy: 0.2880
Epoch 2/25
155/155 [==========] - 146s 942ms/step - loss: 1.5725 - accuracy: 0.3985 - val_loss: 1.4852 - val_accuracy: 0.4159
Epoch 3/25
155/155 [=============] - 137s 886ms/step - loss: 1.4624 - accuracy: 0.4462 - val_loss: 1.4957 - val_accuracy: 0.4110
Epoch 4/25
155/155 [===============] - 137s 887ms/step - loss: 1.3510 - accuracy: 0.4927 - val_loss: 1.4184 - val_accuracy: 0.4563
Epoch 5/25
155/155 [==============] - 138s 889ms/step - loss: 1.2237 - accuracy: 0.5413 - val_loss: 1.3114 - val_accuracy: 0.4854
Epoch 6/25
155/155 [==============] - 137s 881ms/step - loss: 1.1669 - accuracy: 0.5534 - val_loss: 1.2357 - val_accuracy: 0.5911
Epoch 7/25
155/155 [===============] - 137s 897ms/step - loss: 1.0774 - accuracy: 0.5975 - val_loss: 1.1780 - val_accuracy: 0.5793
Epoch 8/25
155/155 [===============] - 137s 882ms/step - loss: 0.9854 - accuracy: 0.6440 - val_loss: 1.1750 - val_accuracy: 0.5939
Epoch 9/25
155/155 [==================] - 137s 882ms/step - loss: 0.8726 - accuracy: 0.6934 - val_loss: 1.1175 - val_accuracy: 0.6149
Epoch 19/25
```

### Numar egalat de poze, 500 de poze in fiecare folder

### Varianta 3:

Instances: 431 Correct: 300 Errors: 131

Acc: 70%

#### Varianta 1:

Instances: 431 Correct: 243 Errors: 188

Acc: 56%

# Varianta 2:

Instances: 431 Correct: 259 Errors: 172

Acc= 60%

# Acuratete la detectarea pielii:

Instances: 379
Correct: 375

Errors: 4

Acc: 98%