bone-age-prediction KAGGLE

USE EARLY STOPPING

<ipython-input-42-866dec19f561>:21: UserWarning: `Model.fit\_generator` is deprecated and will be removed in a future version. Please use `Model.fit`, which supports generators.

history = model\_2.fit\_generator(train\_generator,

Epoch 1/50

315/315 [==============================] - 370s 1s/step - loss: 0.5033 - mae\_in\_months: 21.4530 - val\_loss: 0.4571 - val\_mae\_in\_months: 23.9256 - lr: 0.0010

Epoch 2/50

315/315 [==============================] - 341s 1s/step - loss: 0.1465 - mae\_in\_months: 12.3584 - val\_loss: 0.1836 - val\_mae\_in\_months: 14.2484 - lr: 0.0010

Epoch 3/50

315/315 [==============================] - 338s 1s/step - loss: 0.1091 - mae\_in\_months: 10.7307 - val\_loss: 0.1206 - val\_mae\_in\_months: 11.9742 - lr: 0.0010

Epoch 4/50

315/315 [==============================] - 330s 1s/step - loss: 0.0832 - mae\_in\_months: 9.3751 - val\_loss: 0.4139 - val\_mae\_in\_months: 22.8308 - lr: 0.0010

Epoch 5/50

315/315 [==============================] - 326s 1s/step - loss: 0.0602 - mae\_in\_months: 7.9120 - val\_loss: 0.1502 - val\_mae\_in\_months: 12.9691 - lr: 0.0010

Epoch 6/50

315/315 [==============================] - 338s 1s/step - loss: 0.0471 - mae\_in\_months: 7.0561 - val\_loss: 0.0663 - val\_mae\_in\_months: 7.9635 - lr: 0.0010

Epoch 7/50

315/315 [==============================] - 320s 1s/step - loss: 0.0453 - mae\_in\_months: 6.8189 - val\_loss: 0.1435 - val\_mae\_in\_months: 12.5026 - lr: 0.0010

Epoch 8/50

315/315 [==============================] - 320s 1s/step - loss: 0.0339 - mae\_in\_months: 5.9464 - val\_loss: 0.1037 - val\_mae\_in\_months: 10.2395 - lr: 0.0010

Epoch 9/50

315/315 [==============================] - 316s 1s/step - loss: 0.0327 - mae\_in\_months: 5.8387 - val\_loss: 0.0928 - val\_mae\_in\_months: 9.5997 - lr: 0.0010

Epoch 10/50

315/315 [==============================] - 313s 990ms/step - loss: 0.0360 - mae\_in\_months: 6.0928 - val\_loss: 0.0674 - val\_mae\_in\_months: 9.0470 - lr: 0.0010

Epoch 11/50

315/315 [==============================] - 313s 993ms/step - loss: 0.0321 - mae\_in\_months: 5.8047 - val\_loss: 0.1250 - val\_mae\_in\_months: 12.3741 - lr:

….0.00

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<ipython-input-41-fc2026eff8cb>:21: UserWarning: `Model.fit\_generator` is deprecated and will be removed in a future version. Please use `Model.fit`, which supports generators.

history = model\_2.fit\_generator(train\_generator,

Epoch 1/50

315/315 [==============================] - 324s 1s/step - loss: 0.0186 - mae\_in\_months: 4.3211 - val\_loss: 0.0883 - val\_mae\_in\_months: 9.1811

Epoch 2/50

315/315 [==============================] - 321s 1s/step - loss: 0.0175 - mae\_in\_months: 4.2590 - val\_loss: 0.1003 - val\_mae\_in\_months: 9.9473

Epoch 3/50

315/315 [==============================] - 322s 1s/step - loss: 0.0160 - mae\_in\_months: 4.0400 - val\_loss: 0.0801 - val\_mae\_in\_months: 8.6462

Epoch 4/50

315/315 [==============================] - 323s 1s/step - loss: 0.0141 - mae\_in\_months: 3.7978 - val\_loss: 0.1420 - val\_mae\_in\_months: 13.2754

Epoch 5/50

315/315 [==============================] - 324s 1s/step - loss: 0.0176 - mae\_in\_months: 4.2338 - val\_loss: 0.0719 - val\_mae\_in\_months: 7.8836

Epoch 6/50

315/315 [==============================] - 324s 1s/step - loss: 0.0169 - mae\_in\_months: 4.1700 - val\_loss: 0.1057 - val\_mae\_in\_months: 8.9578

Epoch 7/50

315/315 [==============================] - 323s 1s/step - loss: 0.0178 - mae\_in\_months: 4.2745 - val\_loss: 0.0928 - val\_mae\_in\_months: 10.6863

Epoch 8/50

315/315 [==============================] - 322s 1s/step - loss: 0.0152 - mae\_in\_months: 3.9340 - val\_loss: 0.0749 - val\_mae\_in\_months: 8.3148

Epoch 9/50

315/315 [==============================] - 321s 1s/step - loss: 0.0150 - mae\_in\_months: 3.9035 - val\_loss: 0.0735 - val\_mae\_in\_months: 9.4149

Epoch 10/50

315/315 [==============================] - 321s 1s/step - loss: 0.0131 - mae\_in\_months: 3.6548 - val\_loss: 0.0453 - val\_mae\_in\_months: 6.9559

Epoch 11/50

315/315 [==============================] - 321s 1s/step - loss: 0.0132 - mae\_in\_months: 3.6177 - val\_loss: 0.1058 - val\_mae\_in\_months: 10.8907

Epoch 12/50

315/315 [==============================] - 323s 1s/step - loss: 0.0238 - mae\_in\_months: 4.9063 - val\_loss: 0.1001 - val\_mae\_in\_months: 10.5373

Epoch 13/50

315/315 [==============================] - 323s 1s/step - loss: 0.0166 - mae\_in\_months: 4.0726 - val\_loss: 0.1560 - val\_mae\_in\_months: 13.9146

Epoch 14/50

315/315 [==============================] - 324s 1s/step - loss: 0.0137 - mae\_in\_months: 3.7308 - val\_loss: 0.0881 - val\_mae\_in\_months: 9.6629

Epoch 15/50

315/315 [==============================] - 323s 1s/step - loss: 0.0172 - mae\_in\_months: 4.1305 - val\_loss: 0.0829 - val\_mae\_in\_months: 9.4734

Epoch 16/50

315/315 [==============================] - 323s 1s/step - loss: 0.0120 - mae\_in\_months: 3.4737 - val\_loss: 0.1279 - val\_mae\_in\_months: 12.3213

Epoch 17/50

315/315 [==============================] - 323s 1s/step - loss: 0.0101 - mae\_in\_months: 3.1812 - val\_loss: 0.0614 - val\_mae\_in\_months: 7.8617

Epoch 18/50

315/315 [==============================] - 323s 1s/step - loss: 0.0084 - mae\_in\_months: 2.8700 - val\_loss: 0.1120 - val\_mae\_in\_months: 11.4650

Epoch 19/50

315/315 [==============================] - 322s 1s/step - loss: 0.0068 - mae\_in\_months: 2.5962 - val\_loss: 0.0479 - val\_mae\_in\_months: 7.4087

Epoch 20/50

315/315 [==============================] - 321s 1s/step - loss: 0.0073 - mae\_in\_months: 2.6850 - val\_loss: 0.0948 - val\_mae\_in\_months: 9.6883

Epoch 21/50

315/315 [==============================] - 321s 1s/step - loss: 0.0083 - mae\_in\_months: 2.8414 - val\_loss: 0.1256 - val\_mae\_in\_months: 10.9797

Epoch 22/50

315/315 [==============================] - 319s 1s/step - loss: 0.0089 - mae\_in\_months: 2.9647 - val\_loss: 0.0764 - val\_mae\_in\_months: 9.1092

Epoch 23/50

315/315 [==============================] - 319s 1s/step - loss: 0.0133 - mae\_in\_months: 3.6033 - val\_loss: 0.1523 - val\_mae\_in\_months: 12.2712

Epoch 24/50

315/315 [==============================] - 319s 1s/step - loss: 0.0467 - mae\_in\_months: 6.6290 - val\_loss: 0.0995 - val\_mae\_in\_months: 10.1659

Epoch 25/50

315/315 [==============================] - 318s 1s/step - loss: 0.0278 - mae\_in\_months: 5.1923 - val\_loss: 0.0769 - val\_mae\_in\_months: 8.9725

Epoch 26/50

315/315 [==============================] - 319s 1s/step - loss: 0.0120 - mae\_in\_months: 3.4525 - val\_loss: 0.0780 - val\_mae\_in\_months: 9.4014

Epoch 27/50

315/315 [==============================] - 320s 1s/step - loss: 0.0069 - mae\_in\_months: 2.6064 - val\_loss: 0.0930 - val\_mae\_in\_months: 8.9767

Epoch 28/50

315/315 [==============================] - 319s 1s/step - loss: 0.0046 - mae\_in\_months: 2.1313 - val\_loss: 0.0823 - val\_mae\_in\_months: 7.9796

Epoch 29/50

315/315 [==============================] - 319s 1s/step - loss: 0.0037 - mae\_in\_months: 1.8797 - val\_loss: 0.0845 - val\_mae\_in\_months: 9.1855

Epoch 30/50

315/315 [==============================] - 320s 1s/step - loss: 0.0037 - mae\_in\_months: 1.9111 - val\_loss: 0.1175 - val\_mae\_in\_months: 11.8253

Epoch 31/50

315/315 [==============================] - 319s 1s/step - loss: 0.0210 - mae\_in\_months: 4.3418 - val\_loss: 0.1301 - val\_mae\_in\_months: 11.5359

Epoch 32/50

315/315 [==============================] - 319s 1s/step - loss: 0.0125 - mae\_in\_months: 3.5255 - val\_loss: 0.1417 - val\_mae\_in\_months: 12.0763

Epoch 33/50

315/315 [==============================] - 319s 1s/step - loss: 0.0073 - mae\_in\_months: 2.6677 - val\_loss: 0.0651 - val\_mae\_in\_months: 8.8264

Epoch 34/50

315/315 [==============================] - 318s 1s/step - loss: 0.0046 - mae\_in\_months: 2.1202 - val\_loss: 0.0429 - val\_mae\_in\_months: 7.4636

Epoch 35/50

315/315 [==============================] - 320s 1s/step - loss: 0.0042 - mae\_in\_months: 2.0166 - val\_loss: 0.0787 - val\_mae\_in\_months: 9.4758

Epoch 36/50

315/315 [==============================] - 320s 1s/step - loss: 0.0041 - mae\_in\_months: 1.9961 - val\_loss: 0.0797 - val\_mae\_in\_months: 9.4929

Epoch 37/50

315/315 [==============================] - 319s 1s/step - loss: 0.0039 - mae\_in\_months: 1.9440 - val\_loss: 0.0708 - val\_mae\_in\_months: 8.1156

Epoch 38/50

315/315 [==============================] - 319s 1s/step - loss: 0.0048 - mae\_in\_months: 2.1506 - val\_loss: 0.0819 - val\_mae\_in\_months: 8.3363

Epoch 39/50

315/315 [==============================] - 320s 1s/step - loss: 0.0064 - mae\_in\_months: 2.4417 - val\_loss: 0.1010 - val\_mae\_in\_months: 10.2671

Epoch 40/50

315/315 [==============================] - 319s 1s/step - loss: 0.0123 - mae\_in\_months: 3.4298 - val\_loss: 0.0730 - val\_mae\_in\_months: 9.6917

Epoch 41/50

315/315 [==============================] - 320s 1s/step - loss: 0.0112 - mae\_in\_months: 3.3045 - val\_loss: 0.1378 - val\_mae\_in\_months: 12.1690

Epoch 42/50

315/315 [==============================] - 320s 1s/step - loss: 0.0102 - mae\_in\_months: 3.1075 - val\_loss: 0.0700 - val\_mae\_in\_months: 8.8479

Epoch 43/50

315/315 [==============================] - 319s 1s/step - loss: 0.0062 - mae\_in\_months: 2.4619 - val\_loss: 0.0965 - val\_mae\_in\_months: 9.2349

Epoch 44/50

77/315 [======>.......................] - ETA: 3:55 - loss: 0.0048 - mae\_in\_months: 2.1504

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