- Rezultati nakon treniranja (70 epoha)

```
[ TRAINING DONE! ]
Test loss: 0.4496399164199829
Test accuracy: 0.8307591676712036
```

- Model

```
model = Sequential()
model.add(Conv2D(64, kernel_size=(3, 3), input_shape=(img_rows, img_cols, 3)))
model.add(Activation("relu"))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.2))

model.add(Conv2D(64, kernel_size=(3, 3), input_shape=(img_rows, img_cols, 3)))
model.add(Activation("relu"))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.3))

model.add(Conv2D(64, kernel_size=(3, 3), input_shape=(img_rows, img_cols, 3)))
model.add(Activation("relu"))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.3))

model.add(Conv2D(128, kernel_size=(3, 3), input_shape=(img_rows, img_cols,
3)))
model.add(Activation("relu"))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Dropout(0.4))

model.add(Flatten())
model.add(Dense(64, activation="relu",
kernel_regularizer=keras.regularizers.l2(0.001)))
model.add(Dropout(0.5))
model.add(Dense(3, kernel_regularizer=keras.regularizers.l2(0.001)))
model.add(Dense(num_classes, activation="softmax"))

opt = keras.optimizers.Adamax()

# Compile model
model.compile(loss=keras.losses.categorical_crossentropy,
              optimizer=opt, metrics=['accuracy'])
```

- Testni podaci chest_xray_test_dataset

```
[CORRECT ANSWERS:  467 ]
[INCORRECT ANSWERS:  157 ]
[PERCENTAGE OF ACCURACY:  74.83974358974359 ]
```

- Testni podaci data\test

```
[CORRECT ANSWERS:  616 ]
[INCORRECT ANSWERS:  49 ]
[PERCENTAGE OF ACCURACY:  92.63157894736842 ]
```