CNN ALGORITHM:

OUTPUT

```
Found 6623 images belonging to 2 classes.
Found 1418 images belonging to 2 classes.
Found 2639 images belonging to 2 classes.
Epoch 1/10
- accuracy: 0.9500 - val loss: 0.2018 - val accuracy: 0.9182
Epoch 2/10
- accuracy: 0.9769 - val loss: 0.0332 - val accuracy: 0.9894
207/207 [============= ] - 130s 625ms/step - loss: 0.0397
- accuracy: 0.9854 - val loss: 0.0220 - val accuracy: 0.9937
- accuracy: 0.9848 - val loss: 0.0438 - val accuracy: 0.9824
Epoch 5/10
207/207 [============= - - 126s 609ms/step - loss: 0.0415
- accuracy: 0.9849 - val loss: 0.0130 - val accuracy: 0.9958
Epoch 6/10
207/207 [============== - 115s 553ms/step - loss: 0.0208
- accuracy: 0.9923 - val loss: 0.0337 - val accuracy: 0.9901
Epoch 7/10
207/207 [============ ] - 123s 591ms/step - loss: 0.0273
- accuracy: 0.9903 - val loss: 0.0209 - val accuracy: 0.9944
Epoch 8/10
207/207 [============ ] - 123s 596ms/step - loss: 0.0153
- accuracy: 0.9949 - val loss: 0.0179 - val accuracy: 0.9958
207/207 [============= ] - 129s 626ms/step - loss: 0.0232
- accuracy: 0.9925 - val loss: 0.0775 - val accuracy: 0.9676
Epoch 10/10
- accuracy: 0.9935 - val loss: 0.0038 - val accuracy: 0.9986
```

83/83 [============] - 32s 382ms/step - loss: 0.0037 - accuracy: 0.9992 Test accuracy: 99.92%

207/207 [===========] - 78s 376ms/step - loss: 0.0152 - accuracy: 0.9935 Training accuracy: 99.35%

45/45 [=============] - 14s 305ms/step - loss: 0.0038 - accuracy: 0.9986 Validation accuracy: 99.86%