Epoch 10/10, Loss: 0.0916

Performance Metrics:

Accuracy: 93.85%

Precision: 94.51%

Recall: 93.85%

F1-Score: 93.98%

Performance Metrics:

Classification Report:

precision recall f1-score support

Adposhel 1.00 1.00 1.00 65

Agent 0.85 0.86 0.85 64

Allaple 0.95 0.89 0.92 70

Amonetize 0.97 0.96 0.96 71

Androm 0.93 0.85 0.88 59

Autorun 0.93 0.85 0.89 75

BrowseFox 1.00 0.82 0.90 66

Dinwod 1.00 0.98 0.99 66

Elex 0.84 0.98 0.91 66

Expiro 0.99 0.84 0.90 79

Fasong 1.00 1.00 1.00 61

HackKMS 1.00 1.00 1.00 80

Hlux 1.00 0.99 0.99 83

Injector 0.82 0.89 0.85 61

InstallCore 1.00 0.98 0.99 59

MultiPlug 0.98 0.95 0.97 64

Neoreklami 0.96 0.99 0.97 79

Neshta 0.98 0.94 0.96 62

Other 0.90 0.86 0.88 77

Regrun 1.00 1.00 1.00 82

Sality 0.67 0.89 0.77 74

Snarasite 1.00 1.00 1.00 75

Stantinko 0.99 0.96 0.97 77

VBA 1.00 1.00 1.00 59

VBKrypt 0.78 0.94 0.85 66

Vilsel 1.00 0.97 0.99 80

accuracy 0.94 1820

macro avg 0.94 0.94 0.94 1820

weighted avg 0.95 0.94 0.94 1820

Confusion Matrix:

[[65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0]

[ 0 55 0 0 0 0 0 0 1 0 0 0 0 2 0 0 2 0 1 0 2 0 0 0

1 0]

[ 0 1 62 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0

3 0]

[ 0 0 0 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0

0 0]

[ 0 0 0 0 50 0 0 0 0 1 0 0 0 3 0 0 0 0 0 0 4 0 0 0

1 0]

[ 0 2 0 0 0 64 0 0 0 0 0 0 0 1 0 0 0 0 0 0 3 0 0 0

5 0]

[ 0 0 0 1 0 0 54 0 6 0 0 0 0 1 0 0 0 0 4 0 0 0 0 0

0 0]

[ 0 1 0 0 0 0 0 65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0]

[ 0 1 0 0 0 0 0 0 65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0]

[ 0 0 0 0 2 0 0 0 0 66 0 0 0 2 0 1 0 0 0 0 7 0 1 0

0 0]

[ 0 0 0 0 0 0 0 0 0 0 61 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0]

[ 0 0 0 0 0 0 0 0 0 0 0 80 0 0 0 0 0 0 0 0 0 0 0 0

0 0]

[ 0 0 0 0 0 0 0 0 0 0 0 0 82 0 0 0 0 0 0 0 1 0 0 0

0 0]

[ 0 1 0 0 0 0 0 0 0 0 0 0 0 54 0 0 0 0 0 0 1 0 0 0

5 0]

[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 58 0 1 0 0 0 0 0 0 0

0 0]

[ 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 61 0 0 0 0 2 0 0 0

0 0]

[ 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 78 0 0 0 0 0 0 0

0 0]

[ 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 58 0 0 2 0 0 0

0 0]

[ 0 2 0 0 1 0 0 0 1 0 0 0 0 2 0 0 0 1 66 0 3 0 0 0

1 0]

[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 82 0 0 0 0

0 0]

[ 0 1 3 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 66 0 0 0

2 0]

[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 75 0 0

0 0]

[ 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 2 0 0 0 74 0

0 0]

[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 59

0 0]

[ 0 0 0 0 0 2 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0

62 0]

[ 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 78]]