

WHAT IS CLAIMED IS:

~~1. A computer implemented method, comprising:~~
~~receiving, with at least one processor, transaction data comprising at least one packet associated with a payment transaction;~~
~~extracting, with at least one processor, at least one of network layer data or transport layer data from a header of the at least one packet;~~
~~determining, with at least one processor, a first probability indicating that the at least one packet is in a first class based on the at least one of the network layer data or the transport layer data using a classifier;~~
~~determining with at least one processor, a second probability indicating that the at least one packet is in a second class based on the at least one of the network layer data or the transport layer data using the classifier; and~~
~~blocking, with at least one processor, the at least one packet.~~

~~2. The computer implemented method of claim 1, further comprising:~~
~~determining that the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class,~~
~~wherein blocking the at least one packet from being transmitted comprises blocking the at least one packet based on determining that the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class.~~

~~3. The computer implemented method of claim 1, further comprising:~~
~~determining that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class;~~
~~extracting at least one of session layer data, presentation layer data, or application layer data from the at least one packet;~~
~~determining a third probability indicating that the at least one packet is in the first class based on the at least one of the session layer data, the presentation layer data, or the application layer data and at least one of the network layer data or the transport layer data using the classifier;~~

determining a fourth probability indicating that the at least one packet is in the second class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier; and

determining a fifth probability indicating that the at least one packet is in a third class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier.

4. The computer implemented method of claim 3, wherein blocking the at least one packet comprises:

blocking the at least one packet based on determining that the third probability is greater than the fourth probability and the fifth probability.

5. The computer implemented method of claim 3, further comprising: determining that the fourth probability is greater than the third probability and the fifth probability; and

forwarding the at least one packet to a separate computing device based on determining that the third probability is greater than the fourth probability and the fifth probability.

6. The computer implemented method of claim 3, further comprising: determining that the fifth probability is greater than the third probability and the fourth probability; and

forwarding the at least one packet to a separate computing device based on determining that the fifth probability is greater than the third probability and the fourth probability.

7. The computer implemented method of claim 3, further comprising: determining that the fourth probability is greater than the third probability and the fifth probability; and

forwarding the at least one packet to a risk scoring platform.

~~8. The computer implemented method of claim 3, further comprising: determining a score associated with the at least one packet based on the at least one of the third probability, the fourth probability, or the fifth probability; and adding the score to the header of the at least one packet.~~

~~9. A system, comprising:
at least one processor programmed or configured to:
 receive transaction data comprising at least one packet associated with a payment transaction;
 extract at least one of network layer data or transport layer data from a header of the at least one packet;
 determine a first probability indicating that the at least one packet is in a first class based on the at least one of the network layer data or the transport layer data using a classifier;
 determine a second probability indicating that the at least one packet is in a second class based on the at least one of the network layer data or the transport layer data using the classifier; and
 determine whether the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class,
 wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class, the at least one processor is programmed or configured to block the at least one packet; and
 wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class, the at least one processor is programmed or configured to permit the at least one packet to be transmitted to be forwarded.~~

~~10. The system of claim 9, wherein the at least one processor is further programmed or configured to:
 determine that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class;~~

~~extract at least one of session layer data, presentation layer data, or application layer data from the at least one packet;~~

~~determine a third probability indicating that the at least one packet is in the first class based on the at least one of the session layer data, the presentation layer data, or the application layer data and at least one of the network layer data or the transport layer data using the classifier;~~

~~determine a fourth probability indicating that the at least one packet is in the second class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier; and~~

~~determine a fifth probability indicating that the at least one packet is in a third class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier.~~

11. The system of claim 10, wherein, when blocking the at least one packet, the at least one processor is programmed or configured to:

~~block the at least one packet based on determining that the third probability is greater than the fourth probability and the fifth probability.~~

12. The system of claim 10, wherein the at least one processor is further programmed or configured to:

~~determine that the fourth probability is greater than the third probability and the fifth probability; and~~

~~forward the at least one packet to a separate computing device based on determining that the third probability is greater than the fourth probability and the fifth probability.~~

13. The system of claim 10, wherein the at least one processor is further programmed or configured to:

~~determine that the fifth probability is greater than the third probability and the fourth probability; and~~

~~forward the at least one packet to a separate computing device based on determining that the fifth probability is greater than the third probability and the fourth probability.~~

~~14. The system of claim 10, wherein the at least one processor is further programmed or configured to:~~

~~determine that the fourth probability is greater than the third probability and the fifth probability; and~~

~~forward the at least one packet to a risk scoring platform.~~

~~15. The system of claim 10, wherein the at least one processor is further programmed or configured to:~~

~~determine a score associated with the at least one packet based on the at least one of the third probability, the fourth probability, or the fifth probability; and~~

~~add the score to the header of the at least one packet.~~

~~16. A computer program product, comprising at least one non-transitory computer-readable medium comprising at least one instructions that, when executed by at least one processor, cause the at least one processor to:~~

~~receive transaction data comprising at least one packet associated with a payment transaction;~~

~~extract at least one of network layer data or transport layer data from a header of the at least one packet;~~

~~determine a first probability indicating that the at least one packet is in a first class based on the at least one of the network layer data or the transport layer data using a classifier;~~

~~determine a second probability indicating that the at least one packet is in a second class based on the at least one of the network layer data or the transport layer data using the classifier; and~~

~~determine whether the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class;~~

~~extract at least one of session layer data, presentation layer data, or application layer data from the at least one packet;~~

~~determine a third probability indicating that the at least one packet is in the first class based on the at least one of the session layer data, the presentation layer data, or the application layer data and at least one of the network layer data or the transport layer data using the classifier;~~

~~determine a fourth probability indicating that the at least one packet is in the second class based on the at least one of the session layer data, the presentation layer data, or the~~

application layer data and the at least one of the network layer data or the transport layer data using the classifier; and

determine a fifth probability indicating that the at least one packet is in a third class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier;

wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class, the at least one instructions cause the at least one processor to block the at least one packet; and

wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class, the at least one instructions cause the at least one processor to permit the at least one packet to be transmitted to be forwarded.

17. The computer program product of claim 16, wherein the at least one instructions that cause the at least one processor to block the at least one packet cause the at least one processor to:

block the at least one packet based on determining that the third probability is greater than the fourth probability and the fifth probability.

18. The computer program product of claim 16, wherein the at least one instructions further cause the at least one processor to:

determine that the fifth probability is greater than the third probability and the fourth probability; and

forward the at least one packet to a separate computing device based on determining that the fifth probability is greater than the third probability and the fourth probability.

19. The computer program product of claim 16, wherein the at least one instructions further cause the at least one processor to:

determine that the fourth probability is greater than the third probability and the fifth probability; and

forward the at least one packet to a risk scoring platform.

~~20. The computer program product of claim 16, wherein the at least one instructions further cause the at least one processor to:~~

~~determine a score associated with the at least one packet based on the at least one of the third probability, the fourth probability, or the fifth probability; and~~

~~add the score to the header of the at least one packet.~~

1. A computer-implemented method, comprising: receiving, with at least one processor, transaction data comprising at least one packet associated with a payment transaction; extracting, with at least one processor, at least one of network layer data or transport layer data from a header of the at least one packet; determining, with at least one processor, a first probability indicating that the at least one packet is in a first class based on the at least one of the network layer data or the transport layer data using a classifier; determining with at least one processor, a second probability indicating that the at least one packet is in a second class based on the at least one of the network layer data or the transport layer data using the classifier; blocking, with at least one processor, the at least one packet; determining that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class; extracting at least one of session layer data, presentation layer data, or application layer data from the at least one packet; determining a third probability indicating that the at least one packet is in the first class based on the at least one of the session layer data, the presentation layer data, or the application layer data and at least one of the network layer data or the transport layer data using the classifier; determining a fourth probability indicating that the at least one packet is in the second class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier; and determining a fifth probability indicating that the at least one packet is in a third class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier.

2. The computer-implemented method of claim 1, further comprising: determining that the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class, wherein blocking the at least one packet from being transmitted comprises blocking the at least one packet based on determining that

the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class.

3. The computer-implemented method of claim 1, wherein blocking the atleast one packet comprises: blocking the at least one packet based on determining that the third probability is greater than the fourth probability and the fifth probability.

4. The computer-implemented method of claim 1, further comprising: determining that the fourth probability is greater than the third probability and the fifth probability; and forwarding the at least one packet to a separate computing device based on determining that the third probability is greater than the fourth probability and the fifth probability.

5. The computer-implemented method of claim 1, further comprising: determining that the fifth probability is greater than the third probability and the fourth probability; and forwarding the at least one packet to a separate computing device based on determining that the fifth probability is greater than the third probability and the fourth probability.

6. The computer-implemented method of claim 1, further comprising: determining that the fourth probability is greater than the third probability and the fifth probability; and forwarding the at least one packet to a risk scoring platform.

7. The computer-implemented method of claim 1, further comprising: determining a score associated with the at least one packet based on the at least one of the third probability, the fourth probability, or the fifth probability; and adding the score to the header of the at least one packet.

8. A system, comprising: at least one hardware processor programmed or configured to: receive transaction data comprising at least one packet associated with a payment transaction; extract at least one of network layer data or transport layer data from a header of the at least one packet; determine a first probability indicating that the at least one packet is in a first class based on the at least one of the network layer data or the transport layer data using a classifier; determine a second probability indicating that the at least one packet is in a second class based on the at least one of the network layer data or the transport layer data using the classifier; and determine whether the first probability indicating that the at least one packet is in the first class is greater than

the second probability indicating that the at least one packet is in the second class, wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class, the at least one processor is programmed or configured to block the at least one packet; wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class, the at least one processor is programmed or configured to permit the at least one packet to be transmitted to be forwarded; determine that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class; extract at least one of session layer data, presentation layer data, or application layer data from the at least one packet; determine a third probability indicating that the at least one packet is in the first class based on the at least one of the session layer data, the presentation layer data, or the application layer data and at least one of the network layer data or the transport layer data using the classifier; determine a fourth probability indicating that the at least one packet is in the second class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier; and determine a fifth probability indicating that the at least one packet is in a third class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier.

9. The system of claim 8, wherein, when blocking the at least one packet, the at least one processor is programmed or configured to: block the at least one packet based on determining that the third probability is greater than the fourth probability and the fifth probability.

10. The system of claim 8, wherein the at least one processor is further programmed or configured to: determine that the fourth probability is greater than the third probability and the fifth probability; and forward the at least one packet to a separate computing device based on determining that the third probability is greater than the fourth probability and the fifth probability.

11. The system of claim 8, wherein the at least one processor is further programmed or configured to: determine that the fifth probability is greater than the third probability and the fourth probability; and forward the at least one packet to a

separate computing device based on determining that the fifth probability is greater than the third probability and the fourth probability.

12. The system of claim 8, wherein the at least one processor is further programmed or configured to: determine that the fourth probability is greater than the third probability and the fifth probability; and forward the at least one packet to a risk scoring platform.

13. The system of claim 8, wherein the at least one processor is further programmed or configured to: determine a score associated with the at least one packet based on the at least one of the third probability, the fourth probability, or the fifth probability; and add the score to the header of the at least one packet.

14. A computer program product, comprising at least one non-transitory computer-readable medium comprising at least one instructions that, when executed by at least one processor, cause the at least one processor to: receive transaction data comprising at least one packet associated with a payment transaction; extract at least one of network layer data or transport layer data from a header of the at least one packet; determine a first probability indicating that the at least one packet is in a first class based on the at least one of the network layer data or the transport layer data using a classifier; determine a second probability indicating that the at least one packet is in a second class based on the at least one of the network layer data or the transport layer data using the classifier; and determine whether the first probability indicating that the at least one packet is in the first class is greater than the second probability indicating that the at least one packet is in the second class; extract at least one of session layer data, presentation layer data, or application layer data from the at least one packet; determine a third probability indicating that the at least one packet is in the first class based on the at least one of the session layer data, the presentation layer data, or the application layer data and at least one of the network layer data or the transport layer data using the classifier; determine a fourth probability indicating that the at least one packet is in the second class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier; and determine a fifth probability indicating that the at least one packet is in a third class based on the at least one of the session layer data, the presentation layer data, or the application layer data and the at least one of the network layer data or the transport layer data using the classifier; wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is greater than the

second probability indicating that the at least one packet is in the second class, the at least one instructions cause the at least one processor to block the at least one packet; and wherein, in response to determining that the first probability indicating that the at least one packet is in the first class is less than the second probability indicating that the at least one packet is in the second class, the at least one instructions cause the at least one processor to permit the at least one packet to be transmitted to be forwarded.

15. The computer program product of claim 14, wherein the at least one instructions that cause the at least one processor to block the at least one packet cause the at least one processor to: block the at least one packet based on determining that the third probability is greater than the fourth probability and the fifth probability.

16. The computer program product of claim 14, wherein the at least one instructions further cause the at least one processor to: determine that the fifth probability is greater than the third probability and the fourth probability; and forward the at least one packet to a separate computing device based on determining that the fifth probability is greater than the third probability and the fourth probability.

17. The computer program product of claim 14, wherein the at least one instructions further cause the at least one processor to: determine that the fourth probability is greater than the third probability and the fifth probability; and forward the at least one packet to a risk scoring platform.

18. The computer program product of claim 14, wherein the at least one instructions further cause the at least one processor to: determine a score associated with the at least one packet based on the at least one of the third probability, the fourth probability, or the fifth probability; and add the score to the header of the at least one packet.