

What is claimed is:

1. A method for providing information that relates to triggering a margin call with respect to a first securities portfolio, the method being implemented by at least one processor, the method comprising:

obtaining, by the at least one processor, a plurality of data relating to a plurality of securities portfolios;

automatically determining, by the at least one processor using the plurality of data, at least one data pattern relating to triggering a margin call and at least one corresponding characteristic contributing to triggering the margin call;

automatically generating, by the at least one processor, at least one margin call model based on the at least one data pattern and the at least one characteristic; and

evaluating, by the at least one processor, the first securities portfolio using the at least one margin call model to determine a first information relating to whether to trigger a first margin call with respect to the first securities portfolio.

2. The method of claim 1, wherein the evaluating further comprises:

selecting, by the at least one processor, a first one of the at least one data pattern and a first one of the at least one corresponding characteristic relating to triggering the first margin call for the first securities portfolio; and

displaying, by the at least one processor via a display, the first information on a graphical user interface together with the selected first one of the at least one data pattern and the selected first one of the at least one corresponding characteristic.

3. The method of claim 1, wherein the at least one margin call model is generated automatically using machine learning analysis of the plurality of data.

4. The method of claim 1, wherein the at least one margin call model includes at least one from among a data model, a mathematical model, a process model, and a machine learning model.

5. The method of claim 1, further comprising:

evaluating, by the at least one processor, a second securities portfolio using the at least one margin call model to determine a second information relating to whether

to trigger a future second margin call with respect to the second securities portfolio;
and

displaying, by the at least one processor via a display, the second information
on a graphical user interface.

6. The method of claim 5, wherein the graphical user interface includes at least one dashboard that displays at least one from among monitoring information relating to the first securities portfolio and classification information relating to the at least one characteristic.

7. The method of claim 1, wherein the at least one characteristic includes at least one from among a securities appreciation characteristic, a securities depreciation characteristic, an assets market value difference characteristic, a securities market value difference characteristic, a securities market value buy characteristic, an exposure difference characteristic, a cash market value difference characteristic, a collateral difference characteristic, a cash market value sell characteristic, a haircut difference characteristic, a securities market value sell characteristic, a securities liquidation value buy characteristic, a cash market value appreciation characteristic, a cash market value depreciation characteristic, a pledge market value out characteristic, a pledge market value difference characteristic, a cash market value buy characteristic, a derivative exposure delta characteristic, a derivative initial margin exposure delta characteristic, a pledge liquidation value in characteristic, an accrued interest accumulation characteristic, a pledge market value in characteristic, a pledge market value appreciation characteristic, a pledge market value depreciation characteristic, a derivative negative mark-to-market delta characteristic, a lending value fluctuation due to foreign exchange movements characteristic, private equity calls or accrued interest debited with a future value date characteristic, and an unlimited pledge difference characteristic.

8. The method of claim 1, further comprising:
receiving, by the at least one processor via a graphical user interface, feedback information from at least one user; and
updating, by the at least on processor, the at least one margin call model based on the feedback information.

9. The method of claim 8, wherein the feedback information includes at least one from among a first information accuracy ranking, a second information accuracy ranking, and a characteristic accuracy ranking.

10. The method of claim 1, further comprising:
parsing, by the at least one processor, the plurality of data;
identifying, by the at least one processor in the parsed plurality of data, personally identifiable information; and
anonymizing, by the at least one processor, the plurality of data by removing the identified personally identifiable information.

11. A computing device configured to implement an execution of a method for providing information that relates to triggering a margin call with respect to a first securities portfolio, the computing device comprising:

a processor;
a memory; and
a communication interface coupled to each of the processor and the memory, wherein the processor is configured to:
obtain a plurality of data relating to a plurality of securities portfolios;
automatically determine, by using the plurality of data, at least one data pattern relating to triggering a margin call and at least one corresponding characteristic contributing to triggering the margin call;
automatically generate at least one margin call model based on the at least one data pattern and the at least one characteristic; and
evaluate the first securities portfolio using the at least one margin call model to determine a first information relating to whether to trigger a first margin call with respect to the first securities portfolio.

12. The computing device of claim 11, wherein, for the evaluating, the processor is further configured to:

select a first one of the at least one data pattern and a first one of the at least one corresponding characteristic relating to triggering the first margin call for the first securities portfolio; and

display, via a display, the first information on a graphical user interface together with the selected first one of the at least one data pattern and the selected first one of the at least one corresponding characteristic.

13. The computing device of claim 11, wherein the processor is further configured to automatically generate the at least one margin call model by using machine learning analysis of the plurality of data.

14. The computing device of claim 11, wherein the at least one margin call model includes at least one from among a data model, a mathematical model, a process model, and a machine learning model.

15. The computing device of claim 11, wherein the processor is further configured to:

evaluate a second securities portfolio using the at least one margin call model to determine a second information relating to whether to trigger a future second margin call with respect to the second securities portfolio; and

display, via a display, the second information on a graphical user interface.

16. The computing device of claim 15, wherein the graphical user interface includes at least one dashboard that displays at least one from among monitoring information relating to the first securities portfolio and classification information relating to the at least one characteristic.

17. The computing device of claim 11, wherein the at least one characteristic includes at least one from among a securities appreciation characteristic, a securities depreciation characteristic, an assets market value difference characteristic, a securities market value difference characteristic, a securities market value buy characteristic, an exposure difference characteristic, a cash market value difference characteristic, a collateral difference characteristic, a cash market value sell characteristic, a haircut difference characteristic, a securities market value sell characteristic, a securities liquidation value buy characteristic, a cash market value appreciation characteristic, a cash market value depreciation characteristic, a pledge market value out characteristic, a pledge market value difference characteristic, a cash

market value buy characteristic, a derivative exposure delta characteristic, a derivative initial margin exposure delta characteristic, a pledge liquidation value in characteristic, an accrued interest accumulation characteristic, a pledge market value in characteristic, a pledge market value appreciation characteristic, a pledge market value depreciation characteristic, a derivative negative mark-to-market delta characteristic, a lending value fluctuation due to foreign exchange movements characteristic, private equity calls or accrued interest debited with a future value date characteristic, and an unlimited pledge difference characteristic.

18. The computing device of claim 11, wherein the processor is further configured to:

- receive, via a graphical user interface, feedback information from at least one user; and
- update the at least one margin call model based on the feedback information.

19. The computing device of claim 18, wherein the feedback information includes at least one from among a first information accuracy ranking, a second information accuracy ranking, and a characteristic accuracy ranking.

20. The computing device of claim 11, wherein the processor is further configured to:

- parse the plurality of data;
- identify, in the parsed plurality of data, personally identifiable information;
- and
- anonymizing the plurality of data by removing the identified personally identifiable information.