WHAT IS CLAIMED IS:

1. A method for aggregating time-series data streams based on potential state characteristics following aggregation, the method comprising:

receiving a first model profile, wherein the first model profile is populated based on a first plurality of time-series data streams, and wherein the first model profile corresponds to a required state characteristic;

determining a first feature input based on the first model profile;

retrieving a first plurality of time-series data stream clusters, wherein the first plurality of time-series data stream clusters is generated by a first artificial intelligence model that is trained to cluster a plurality of available time-series data streams into the first plurality of time-series data stream clusters by aggregating a subset of the plurality of available time-series data streams;

determining a second feature input based on the first plurality of time-series data stream clusters;

determining, based on the first feature input and the second feature input, a first similarity between the first plurality of time-series data streams and each of the first plurality of time-series data stream clusters;

selecting a first time-series data stream cluster from the first plurality of time-series data stream clusters based on the first similarity exceeding a first similarity threshold;

generating a second time-series data stream cluster based on aggregating the first time-series data stream cluster and the first plurality of time-series data streams;

determining a first state characteristic for the second time-series data stream cluster;

comparing the first state characteristic to the required state characteristic; and

generating, at a user interface, a first recommendation for the first time-series data stream cluster based on comparing the first state characteristic to the required state characteristic.

2. The method of claim 1, wherein determining the first feature input based on the first model profile further comprises:

determining a vector array type corresponding to the first model profile; and

determining the first feature input based on the vector array type.

3. The method of claim 1, wherein populating the first model profile based on the first plurality of time-series data streams further comprises:

receiving a first time stamp; and

determining respective values for each data stream of the first plurality of time-series data streams corresponding to the first time stamp, wherein each data stream comprises a plurality of values corresponding to different time stamps.

4. The method of claim 1, wherein determining, based on the first feature input and the second feature input, the first similarity between the first plurality of time-series data streams and each of the first plurality of time-series data stream clusters further comprises one of:

(a) retrieving a first criterion for determining the first similarity, wherein the first criterion is based on the first model profile; retrieving a second criterion for determining the first similarity, wherein the second criterion is based on the required state characteristic; and performing a multivariable analysis of the first plurality of time-series data streams and each of the first plurality of time-series data stream clusters based on the first criterion and the second criterion; or

(b) selecting an algorithm from a plurality of algorithms for processing the first feature input and the second feature input; selecting a second artificial intelligence model from a plurality of artificial intelligence models based on the algorithm; and inputting the first feature input and the second feature input into the second artificial intelligence model to generate a first output, wherein the first output comprises the first similarity; or;

(c) generating a plurality of respective feature inputs corresponding to each of the first plurality of time-series data stream clusters; and comparing the first feature input to the plurality of respective feature inputs.

5. The method of claim 1, wherein determining the first state characteristic for the second time-series data stream cluster further comprises:

retrieving a normalization factor for the first plurality of time-series data streams; and

applying the normalization factor to the second time-series data stream cluster to generate the first state characteristic.

6. The method of claim 1, wherein generating the second time-series data stream cluster based on aggregating the first time-series data stream cluster and the first plurality of time-series data streams further comprises:

retrieving a normalization factor for the first plurality of time-series data streams;

applying the normalization factor to the first time-series data stream cluster to generate a normalized time-series data stream cluster; and

aggregating the normalized time-series data stream cluster and the first plurality of time-series data streams to generate the second time-series data stream cluster.

7. The method of claim 1, wherein selecting the first time-series data stream cluster from the first plurality of time-series data stream clusters based on the first similarity exceeding the first similarity threshold further comprises one of:

(a) determining a profile characteristic for the first model profile; and determining the first similarity threshold based on the profile characteristic; or

(b) determining the first similarity threshold based on a minimum amount of similarity required between the first time-series data stream cluster from the first plurality of time-series data stream clusters and the first plurality of time-series data streams; determining a second similarity threshold based on a maximum amount of similarity required between the first time-series data stream cluster from the first plurality of time-series data stream clusters and the first plurality of time-series data streams; and selecting the first time-series data stream cluster from the first plurality of time-series data stream clusters based on the first similarity not exceeding the second similarity threshold.

8. The method of claim 1, wherein generating the first recommendation for the first time-series data stream cluster based on comparing the first state characteristic to the required state characteristic further comprises:

determining a difference between the first state characteristic and the required state characteristic; and

determining whether the difference exceeds a threshold difference.

9. The method of claim 8, wherein determining the difference between the first state characteristic and the required state characteristic further comprises:

determining a gradient for a time-series prediction based on the difference;

determining a magnitude of the gradient; and

identifying a predicted event for the time-series prediction based on the magnitude;

wherein, optionally, the method further comprises: determining an effect of the predicted event based on the magnitude; and selecting the first recommendation from a plurality of recommendations based on the effect.

10. The method of claim 1, wherein the first artificial intelligence model is trained to cluster the plurality of available time-series data streams into the first plurality of time-series data stream clusters by aggregating the subset of the plurality of available time-series data streams based on correlation-distances between separate time-series data streams of the plurality of available time-series data streams.

11. The method of claim 1, wherein training the first artificial intelligence model comprises:

generating a matrix of pairwise correlations corresponding to the plurality of available time-series data streams; and

clustering the plurality of available time-series data streams based on pairwise distances.

12. The method of claim 1, further comprising:

receiving a first labeled feature input, wherein the first labeled feature input is labeled with a known subset for the first labeled feature input; and

training the first artificial intelligence model to classify the first labeled feature input with the known subset.

13. The method of claim 1, wherein selecting the first time-series data stream cluster from the first plurality of time-series data stream clusters based on the first similarity exceeding the first similarity threshold further comprises:

determining the first similarity threshold based on a minimum amount of similarity required between the first time-series data stream cluster from the first plurality of time-series data stream clusters;

determining a second similarity threshold based on a maximum amount of similarity required between the first time-series data stream cluster from the first plurality of time-series data stream clusters; and

selecting the first time-series data stream cluster from the first plurality of time-series data stream clusters based on the first similarity not exceeding the second similarity threshold.

14. A system arranged to carry out the method of any one of claims 1 to 13.

15. A computer program which, when executed by one or more processors, causes the one or more processors to carry out the method of any one of claims 1 to 13.