We claim:

1. A method, comprising:

receiving, at a first edge compute site of a telecommunications network, raw data from a first device over a first access network;

determining, by the first edge compute site, whether to send the raw data to a second edge compute site of the telecommunications network;

when it is determined to send the raw data to the second edge compute site of the telecommunications network, sending, by the first edge compute site, the raw data to the second edge compute site;

determining, by the first edge compute site, whether the raw data needs to be modified for consumption by a first model that is stored by one of the first edge compute site, the second edge compute site, the first device, or a second device connected to the first edge compute site;

when it is determined that the raw data needs to be modified for consumption by the first model, modifying the raw data to generate modified data;

determining, by the first edge compute site, whether to provide the modified data to at least one of the second edge compute site, the first device, or the second device;

when it is determined to provide the modified data to at least one of the second edge compute site, the first device, or the second device, providing the modified data to at least one of the second edge compute site, the first device, or the second device;

determining, by the first edge compute site, whether to modify the first model at the first edge compute site using the modified data;

when it is determined to modify the first model at the first edge compute site, modifying the first model using the modified data to generate a modified first model;

determining, by the first edge compute site, whether to send the modified first model to at least one of the second edge compute site, the first device, or the second device;

when it is determined to send the modified first model to at least one of the second edge compute site or the first device, sending the modified first model to at least one of the second edge compute site, the first device, or the second device; and

using the modified first model to automatically affect operation of at least one of the first edge compute site, the second edge compute site, the first device, or the second device.

2. The method of claim 1, further comprising:

receiving, by the first edge compute site, second modified data related to a second model, from the second edge compute site.

3. The method of claim 2, further comprising:

modifying the second model at the first edge compute site; and

providing, by the first edge compute site, the modified second model to the second device.

4. The method of claim 2 or 3, further comprising:

providing the second modified data by the first edge compute site to the second device over the first access network.

5. The method of any one of claims 1 to 4, further comprising:

evaluating the second modified data to determine a security value for the second modified data;

based on determining the security value, determining, by the first compute site, whether to provide the second modified data to the second device.

6. The method of any one of claims 1 to 5, further comprising:

receiving, from a network orchestration system at the first edge compute site, instructions to provide the modified data to the second edge compute site and the modified first model to the second device.

7. The method of claim 6, further comprising:

receiving updated instructions from the network orchestration system at the first edge compute site to no longer provide updates to modified data or the modified first model to the second edge compute site.

8. The method of claim 6 or 7, further comprising:

receiving, from the network orchestration system at the first edge compute site, instructions to provide the raw data to a third edge compute site but not provide the raw data to the second edge compute site.

9. The method of any one of claims 1 to 8, wherein modifying the raw data comprises extracting feature pairs from the raw data.

10. The method of claim 9, wherein the modifying the raw data to generate the modified data comprises generating first modified data by extracting a first set of feature pairs from the raw data for use in the first model and generating second modified data by extracting a second set of feature pairs from the raw data for use in a second model, the method further comprising:

using the first modified data to modify the first model at the first edge compute site; and

sending the second modified data to the second edge compute site.

11. A system, comprising:

at least one processor;

memory, operatively connected to the at least one processor and storing instructions that, when executed by the at least one processor, cause the system to perform a method, the method comprising:

receiving, at a first edge compute site of a telecommunications network, raw data from a first device over a first access network;

determining, by the first edge compute site, whether to send the raw data to a second edge compute site of the telecommunications network;

when it is determined to send the raw data to the second edge compute site of the telecommunications network, sending, by the first edge compute site, the raw data to the second edge compute site;

determining, by the first edge compute site, whether the raw data needs to be modified for consumption by a first model that is stored by one of the first edge compute site, the second edge compute site, the first device, or a second device connected to the first edge compute site;

when it is determined that the raw data needs to be modified for consumption by the first model, modifying the raw data to generate modified data;

determining, by the first edge compute site, whether to provide the modified data to at least one of the second edge compute site, the first device, or the second device;

when it is determined to provide the modified data to at least one of the second edge compute site, the first device, or the second device, providing the modified data to at least one of the second edge compute site, the first device, or the second device;

determining, by the first edge compute site, whether to modify the first model at the first edge compute site using the modified data;

when it is determined to modify the first model at the first edge compute site, modifying the first model using the modified data to generate a modified first model;

determining, by the first edge compute site, whether to send the modified first model to at least one of the second edge compute site, the first device, or the second device;

when it is determined to send the modified first model to at least one of the second edge compute site, the first device, or the second device, sending the modified first model to at least one of the second edge compute site, the first device, or the second device; and

using the modified first model to automatically affect operation of at least one of the first edge compute site, the second edge compute site, the first device or the second device.

12. The system of claim 11, wherein the method further comprises:

receiving, by the first edge compute site, second modified data related to a second model, from the second edge compute site.

13. The system of claim 12, wherein the method further comprises:

modifying the second model at the first edge compute site; and

providing, by the first edge compute site, the modified second model to the second device.

14. The system of claim 12 or 13, wherein the method further comprises:

evaluating the second modified data to determine a security value for the second modified data;

based on determining the security value, determining, by the first compute site, whether to provide the second modified data to the second device.

15. The system of any one of claims 12 to 14, wherein the method further comprises:

providing the second modified data by the first edge compute site to the second device over the first access network.

16. The system of any one of claims 12 to 15, wherein the method further comprises:

receiving, from a network orchestration system at the first edge compute site, instructions to provide the modified data to the second edge compute site and the modified first model to the second device.

17. The system of claim 16, wherein the method further comprises:

receiving updated instructions from the network orchestration system at the first edge compute site to no longer provide updates to modified data or the modified first model to the second edge compute site.

18. The system of claim 16 or 17, wherein the method further comprises:

receiving, from the network orchestration system at the first edge compute site, instructions to provide the raw data to a third edge compute site but not provide the raw data to the second edge compute site.

19. The system of any one of claims 11 to 18, wherein modifying the raw data comprises extracting feature pairs from the raw data, wherein modifying the raw data to generate the modified data comprises generating first modified data by extracting a first set of feature pairs from the raw data for use in the first model and generating second modified data by extracting a second set of feature pairs from the raw data for use in a second model, and wherein the method further comprises:

using the first modified data to modify the first model at the first edge compute site; and

sending the second modified data to the second edge compute site.

20. A method, comprising:

determining, by a network orchestration system of a telecommunications network, a first set of one or more edge compute sites currently connected to at least one device utilizing a first model;

determining, by the network orchestration system of the telecommunications network, a second set of one or more edge compute nodes currently connected to at least one device utilizing a second model;

providing, by the network orchestration system, first instructions to the first set of one or more edge compute sites, the first instructions comprising:

whether and where to replicate raw data received from the at least one device utilizing the first model;

whether to modify the raw data at the first set of one or more edge compute sites to generate first modified data;

whether and where to replicate the first modified data to one or more other edge compute sites in the first set;

whether to modify the first model at the first set of one or more edge compute sites to generate a first modified model; and

whether and where to replicate the first modified model; and

providing, by the network orchestration system, second instructions to the second set of one or more edge compute sites, the second instructions comprising:

whether and where to replicate raw data received from the at least one device utilizing the second model;

whether to modify the raw data at the second set of one or more edge compute sites to generate second modified data;

whether and where to replicate the second modified data to one or more other edge compute sites in the second set;

whether to modify the second model at the second set of one or more edge compute sites to generate a second modified model; and

whether and where to replicate the second modified model.