

CLAIMS

What is claimed is:

1. A method for recommending pet food for a pet comprising:
 - 5 receiving, by a processing system of a platform, pet information corresponding to the pet from a client user device of a user associated with the pet;
receiving, by the processing system, sensor measurements from one or more wearable devices worn by the pet via an API of the platform;
receiving, by the processing system, video data from one or more home devices
10 associated with an owner of the pet;
generating, by the processing system, a set of attributes relating to the pet based on the pet information, the sensor measurements, and the video data, the set of attributes including a temperature attribute indicating a body temperature of the pet;
determining, by the processing system, a temperature classification corresponding to
15 the pet based on the set of attributes;
determining, by the processing system, a recipe score corresponding to the pet based upon the temperature classification and the set of attributes;
determining, by the processing system, a pet food recommendation from a pet product database based on the recipe score;
20 determining, by the processing system, a quantity of food to recommend for the pet based on the set of attributes; and
providing, by the processing system, a diet recommendation indicating the pet food recommendation and the quantity of food to the user via a communication network.
2. The method of claim 1, wherein determining the set of attributes includes structuring
25 the pet information into one or more attributes.
3. The method of claim 2, wherein the pet information includes one or more of an age of the pet, a breed of the pet, a size of the pet, and a weight of the pet and the set of attributes include one or more of an age attribute, a breed attribute, a size attribute, and a weight attribute.

4. The method of claim 1, wherein determining the set of attributes includes structuring the sensor measurements into one or more attributes.
5. The method of claim 4, wherein the sensor measurements include one or more of heart rate data, temperature data, and breath rate data and the set of attributes include one or more of
5 a heart rate attribute, the temperature attribute, and a breath rate attribute.
6. The method of claim 1, wherein determining the set of attributes includes:
analyzing the video data using a computer-vision system to determine one or more classifications based on the video data; and
structuring the one or more classifications into one or more respective attributes.
- 10 7. The method of claim 6, wherein the one or more classifications include one or more of an eye clarity classification, a mood classification, a skin condition classification, and a muscle tone classification and the one or more attributes include one or more of an eye clarity attribute, a mood attribute, a skin condition attribute, and a muscle tone attribute.
8. The method of claim 1, wherein the temperature classification is selected from one of
15 a warm classification, a neutral classification, and a cool classification.
9. The method of claim 8, wherein determining the recipe score includes:
setting an initial recipe score based on the temperature classification; and
selectively adjusting the recipe score based on the set of attributes.
10. The method of claim 9, wherein the pet food recommendation includes selecting a first
20 pet food with warming ingredients when the recipe score is greater than an upper threshold, a second food with cooling ingredients when the recipe is less than a lower threshold, and a neutral food with neutral ingredients when the recipe is greater than the lower threshold and less than the upper threshold.

11. A method for recommending pet food for a pet comprising:
receiving, by a processing system of a platform, pet information corresponding to the pet from a client user device of a user associated with the pet;
generating, by the processing system, a set of attributes relating to the pet based on the
5 pet information;
determining, by the processing system, a temperature classification corresponding to the pet based on the set of attributes;
determining, by the processing system, a recipe score corresponding to the pet based upon the temperature classification and the set of attributes;
10 determining, by the processing system, a pet food recommendation from a pet product database based on the temperature classification; and
providing, by the processing system, a diet recommendation indicating the pet food recommendation the user via a communication network.
12. The method of claim 1, wherein determining the set of attributes includes structuring
15 the pet information into one or more attributes.
13. The method of claim 2, wherein the pet information includes one or more of an age of the pet, a breed of the pet, a size of the pet, and a weight of the pet and the set of attributes include one or more of an age attribute, a breed attribute, a size attribute, and a weight attribute.
14. The method of claim 1, further comprising receiving, by the processing system, sensor
20 measurements from one or more wearable devices worn by the pet via an API of the platform.
15. The method of claim 14, wherein determining the set of attributes includes structuring the sensor measurements into one or more attributes.
16. The method of claim 15, wherein the sensor measurements include one or more of heart rate data, temperature data, and breath rate data and the set of attributes include one or more of
25 a heart rate attribute, the temperature attribute, and a breath rate attribute.

17. The method of claim 1, further comprising receiving, by the processing system, video data from one or more home devices associated with an owner of the pet.
18. The method of claim 1, wherein determining the set of attributes includes:
analyzing the video data using a computer-vision system to determine one or more
5 classifications based on the video data; and
structuring the one or more classifications into one or more respective attributes.
19. The method of claim 18, wherein the one or more classifications include one or more of an eye clarity classification, a mood classification, a skin condition classification, and a muscle tone classification and the one or more attributes include one or more of an eye clarity
10 attribute, a mood attribute, a skin condition attribute, and a muscle tone attribute.
20. The method of claim 11, wherein the temperature classification is selected from one of a warm classification, a neutral classification, and a cool classification.
21. The method of claim 20, further comprising determining, by the processing system, a recipe score corresponding to the pet based upon the temperature classification and the set of
15 attributes, including a temperature attribute indicating a body temperature of the pet.
22. The method of claim 21, wherein determining the recipe score includes:
setting an initial recipe score based on the temperature classification; and
selectively adjusting the recipe score based on the set of attributes.
23. The method of claim 21, wherein the pet food recommendation includes selecting a
20 first pet food with warming ingredients when the recipe score is greater than an upper threshold, a second food with cooling ingredients when the recipe is less than a lower threshold, and a neutral food with neutral ingredients when the recipe is greater than the lower threshold and less than the upper threshold.

24. The method of claim 21, wherein determining the pet recipe score includes inputting the set of attributes into a machine-learned scoring model that is trained to output recipe scores in response to respective sets of attributes.
25. A method for recommending a pet treat for a pet comprising:
- 5 receiving, by a processing system of a platform, pet information corresponding to the pet from a client user device of a user associated with the pet;
- receiving, by the processing system, sensor measurements from one or more wearable devices worn by the pet via an API of the platform;
- generating, by the processing system, a set of attributes relating to the pet based on the pet information, the sensor measurements, and the video data, the set of attributes including a
- 10 temperature attribute indicating a body temperature of the pet;
- determining, by the processing system, a pet treat recommendation based on the set of attributes; and
- providing, by the processing system, the pet treat recommendation to the user via a
- 15 communication network.
26. The method of claim 25, wherein determining the set of attributes includes structuring the pet information into one or more attributes.
27. The method of claim 26, wherein the pet information includes one or more of an age of the pet, a breed of the pet, a size of the pet, and a weight of the pet and the set of attributes
- 20 include one or more of an age attribute, a breed attribute, a size attribute, and a weight attribute.
28. The method of claim 25, wherein determining the set of attributes includes structuring the sensor measurements into one or more attributes.
29. The method of claim 28, wherein the sensor measurements include one or more of heart rate data, temperature data, and breath rate data and the set of attributes include one or more of
- 25 a heart rate attribute, the temperature attribute, and a breath rate attribute.

30. The method of claim 25, further comprising receiving, by the processing system, video data from one or more home devices associated with an owner of the pet.
31. The method of claim 30, wherein determining the set of attributes includes:
analyzing the video data using a computer-vision system to determine one or more
5 classifications based on the video data; and
structuring the one or more classifications into one or more respective attributes.
32. The method of claim 31, wherein the one or more classifications include one or more of an eye clarity classification, a mood classification, a skin condition classification, and a muscle tone classification and the one or more attributes include one or more of an eye clarity
10 attribute, a mood attribute, a skin condition attribute, and a muscle tone attribute.
33. The method of claim 25, wherein determining the pet treat recommendation includes determining a temperature classification based on the set of attributes.
34. The method of claim 33, wherein determining the pet treat recommendation includes determining a pet recipe score based on the temperature classification and the set of attributes.
- 15 35. The method of claim 34, wherein determining the pet treat recommendation includes determining the pet treat from a product database based on the pet recipe scores and one or more ingredients of the pet treat.
36. A method for recommending a pet supplement for a pet comprising:
receiving, by a processing system of a platform, pet information corresponding to the
20 pet from a client user device of a user associated with the pet;
receiving, by the processing system, sensor measurements from one or more wearable devices worn by the pet via an API of the platform;
generating, by the processing system, a set of attributes relating to the pet based on the pet information, the sensor measurements, and the video data, the set of attributes including a
25 temperature attribute indicating a body temperature of the pet;

determining, by the processing system, a pet supplement recommendation based on the set of attributes; and

providing, by the processing system, the pet supplement recommendation to the user via a communication network.

5 37. The method of claim 36, wherein determining the set of attributes includes structuring the pet information into one or more attributes.

38. The method of claim 37, wherein the pet information includes one or more of an age of the pet, a breed of the pet, a size of the pet, and a weight of the pet and the set of attributes include one or more of an age attribute, a breed attribute, a size attribute, and a weight attribute.

10 39. The method of claim 36, wherein determining the set of attributes includes structuring the sensor measurements into one or more attributes.

40. The method of claim 39, wherein the sensor measurements include one or more of heart rate data, temperature data, and breath rate data and the set of attributes include one or more of a heart rate attribute, the temperature attribute, and a breath rate attribute.

15 41. The method of claim 36, further comprising receiving, by the processing system, video data from one or more home devices associated with an owner of the pet.

42. The method of claim 41, wherein determining the set of attributes includes:
analyzing the video data using a computer-vision system to determine one or more classifications based on the video data; and

20 structuring the one or more classifications into one or more respective attributes.

43. The method of claim 42, wherein the one or more classifications include one or more of an eye clarity classification, a mood classification, a skin condition classification, and a muscle tone classification and the one or more attributes include one or more of an eye clarity attribute, a mood attribute, a skin condition attribute, and a muscle tone attribute.

44. The method of claim 36, wherein determining the pet supplement recommendation includes determining a temperature classification based on the set of attributes.

45. The method of claim 44, wherein determining the pet supplement recommendation includes determining a pet recipe score based on the temperature classification and the set of
5 attributes.

46. The method of claim 45, wherein determining the pet supplement recommendation includes determining the pet supplement from a product database based on the pet recipe scores and one or more ingredients of the pet supplement.