CLAIMS

What is claimed is:

1. 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;

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 associated with the user;

determining, 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, 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,

wherein the one or more classifications include one or more of an eye clarity classification, a mood classification, a skin condition classification, or 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, or a muscle tone attribute;

determining, by the processing system and using a machine-learned classification model, 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;

determining, by the processing system, a pet food recommendation from a pet product database based on the recipe score, wherein the pet food recommendation includes selecting a 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 score is less than a lower threshold, and a neutral food with neutral ingredients when the recipe score is greater than the lower threshold and less than the upper threshold; and

providing, by the processing system, a diet recommendation indicating the pet food recommendation to the user via a communication network.

2. The method of claim 1, wherein determining the set of attributes includes structuring 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 a heart rate attribute, a temperature attribute, and a breath rate attribute.

6. The method of claim 1, 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.

7. A method for recommending a pet treat or a pet supplement 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;

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 associated with the user;

determining, 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, 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,

wherein the one or more classifications include one or more of an eye clarity classification, a mood classification, a skin condition classification, or 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, or a muscle tone attribute;

determining, by the processing system and using a machine-learned classification model, 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;

determining, by the processing system, a pet treat or a pet supplement recommendation based on the recipe score, wherein the pet treat or a pet supplement recommendation includes selecting a first pet treat or a pet supplement with warming ingredients when the recipe score is greater than an upper threshold, a second treat or a pet supplement with cooling ingredients when the recipe score is less than a lower threshold, and a neutral pet treat or a pet supplement with neutral ingredients when the recipe score is greater than the lower threshold and less than the upper threshold; and

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

8. The method of claim 7, wherein determining the set of attributes includes structuring the pet information into one or more attributes.

9. The method of claim 8, 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. The method of claim 7, wherein determining the set of attributes includes structuring the sensor measurements into one or more attributes.

11. The method of claim 10, 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.

12. The method of claim 7, wherein determining the pet treat or pet supplement recommendation includes determining the pet treat or pet supplement from a product database based on the pet recipe scores and one or more ingredients of the pet treat or pet supplement.