

CLAIMS

1. A computer system interconnected to a community of users, comprising:

5 a data processor input module programmed to receive communications from said users including one or more inputs regarding food recipes and store said inputs in accessible memory;

10 a data processor determining module programmed to access stored data and to apply a data interpretative algorithm to said data to unify and organize disparate data inputs into a cohesive database relating to recipes; and

a search entry module connected to said recipe database to permit access to said database to support a search algorithm applied to said database.

15 2. A computer system networked to a plurality of users, comprising:

a memory storing a plurality of semi-structured user inputted data;

20 a processor applying a data interpretative algorithm to a subset of the semi-structured user inputted data;

a second processor using the subset of the semi-structured user inputted data to categorize a remainder of the plurality of semi-structured user inputted data; and

25 an interface allowing a user to search the categorized plurality of semi-structured user inputted data.

3. The system of claim 2, wherein the plurality of semi-structured user inputted data comprises a plurality of data fields.

4. The system of claim 3, wherein the plurality of semi-structured user inputted data are recipes, and

wherein the plurality of data fields comprises at least one of a recipe title, ingredients, instructions, tags, and an image.

5. The system of claim 2, wherein the data interpretative algorithm comprises at least one of a hybrid Maximum Entropy and LDA model and a term frequency-inverse document frequency and a cosine similarity analysis.

6. A method to analyze semi-structured data, the steps comprising:

storing, in a memory, a plurality of semi-structured data entries, wherein each semi-structured data entry comprise a plurality of data fields;

sorting, with a processor, the semi-structured data fields in each semi-structured data entry;

selecting, using a processor, a subset of semi-structured data entries using a data interpretative algorithm;

selecting, from the semi-structured data fields of the subset of the semi-structured data entries, a topical data field;

analyzing remaining plurality of semi-structured data entries, using a processor, with the topical data field;

selecting, using a processor, a new subset of semi-structured data entries using a data interpretative algorithm on the analyzed remaining plurality of semi-structured data entries; and

combining the new subset of semi-structured data entries with the subset of the semi-structured data entries.

7. The method of claim 6, wherein the plurality of semi-structured data entries are recipes, and

wherein the plurality of data fields comprises at least one of a recipe title, ingredients, instructions, tags, and an image.

8. The method of claim 6, wherein the data interpretative algorithm comprises a hybrid Maximum Entropy and LDA model.

9. The method of claim 6, wherein the data interpretative algorithm comprises a term frequency-inverse document frequency and a cosine similarity analysis.

CLAIMS

1. A computer system for presenting a topic, characteristics and an attribution of the topic to a plurality of users via a predetermined network, comprising:

a memory configure to store a plurality of semi-structured data entries, each semi-structured data entry providing with a predetermined topic and a topic data field; and

a processor configure to select a subset of the semi-structured data entries based on a topic of the semi-structured data entries, select at least one of a semi-structured data field related to the topic and the topic data field, and apply a data interpretative algorithm to the topic and the characteristics of the selected semi-structured data fields to determine the attribution of the topic.

2. The computer system of claim 1, wherein the topic, the characteristics and the attribution of the topic correspond to a recipe title, ingredients and country cuisine, respectively.

3. The system of claim 1, wherein the data interpretative algorithm comprises at least one of a hybrid Maximum Entropy and LDA model and a term frequency-inverse document frequency and a cosine similarity analysis.

4. The computer system of claim 1, wherein the selected subset of semi-structured data entry is a training data, and

the processor combines updated training data with the previous training data, and repeats a determination of the topic and the characteristics and the application of the data interpretative algorithm.

5. A method for presenting a topic, characteristics and an attribution of the topic to a plurality of users via a predetermined network, comprising:

storing, in a memory, a plurality of semi-structured data entries, each semi-structured data entry providing with a predetermined topic and a topic data field;

selecting, with a processor, a subset of the semi-structured data entries based on a topic of the semi-structured data entries;

selecting, with the processor, at least one of a semi-structured data field related to the topic and the topic data field; and

applying, with the processor, a data interpretative algorithm to the topic and the characteristics of the selected semi-structured data fields to determine the attribution of the topic.

6. The method of claim 5, wherein the topic, the characteristics and the attribution of the topic correspond to a recipe title, ingredients and country cuisine, respectively.

7. The method of claim 5, wherein the data interpretative algorithm comprises at least one of a hybrid Maximum Entropy and LDA model and a term frequency-inverse document frequency and a cosine similarity analysis.

8. The method of claim 5, wherein the selected subset of semi-structured data entry is a training data, and
the method further comprises:
combining updated training data with the previous training data,
and repeating a determination of the topic and the characteristics and the application of the data interpretative algorithm.