Claims

1. A computer-implemented system for streamlined product searching, the system comprising:

a memory storing instructions; and

at least one processor configured to execute the instructions to:

receive, from a user device, a search query comprising at least one keyword;

determine, based on the at least one keyword, a product type;

retrieve, from at least one data structure, a first record comprising products associated with the product type and associated metadata;

determine, based on the first record, whether the search query meets a first condition; and

if the search query meets the first condition:

determine, based on the associated metadata, a plurality of label values, and for each label value in the plurality of label values:

generate, from the first record, a second record comprising products associated with the label value based on the associated metadata;

determine, based on the associated metadata, whether a subset of the products in the second record meets a second condition that the subset of the products in the second record falls below a threshold value relative to the other products in the second record;

delete the subset of the products in the second record that meets the second condition from the second record; and

rank, based on the metadata, each remaining product in the second record;

display, on the user device, the plurality of label values for selection;

receive, from the user device, a selected label value; and

display, on the at least one user device, at least a portion of the remaining ranked products associated with the selected label value.

2. The computer-implemented system of claim 1, wherein at least one label value in the plurality of label values is associated with a price range.

3. The computer-implemented system of claim 2, wherein the price range associated with the at least one label value corresponds to a quartile price range associated with previously purchased products associated with the product type.

4. The computer-implemented system of claim 1, wherein the associated metadata comprises, for each product in the first record:

historical engagement data; and

attributes associated with the product.

5. The computer-implemented system of claim 4, wherein determining a plurality of label value comprises:

determining, for each product in the first record, at least one correlation value associated with the historical engagement data and the attributes associated with the product; and

determining, based on the at least one correlation value, a dimension associated with each label value.

6. The computer-implemented system of claim 1, wherein the associated metadata comprises, for each product in the first record:

a sales volume;

a product rating;

a product review count;
a search rank; or
a seller reliability rating.

7. The computer-implemented system of claim 6, wherein the second condition is met if at least one of the sales volume, the product rating, the product review count, the search rank, and the seller reliability rating fall below the threshold value.

8. The computer-implemented system of claim 1, wherein the portion of the displayed remaining ranked products corresponds to a fixed number of products.

9. The computer-implemented system of claim 8, wherein the processor is further configured to determine whether a number of products in the remaining ranked products meets or exceeds the fixed number of products, and displaying the remaining ranked products comprises displaying only a highest ranked product if the number of products does not meet or exceed the fixed number of products.

10. The computer-implemented system of claim 1, wherein the search query meets the first condition if a number of products in the first record exceeds a threshold amount.

11. A computer-implemented method for streamlined product searching, the method comprising:
receiving, from a user device, a search query comprising at least one keyword;
determining, based on the at least one keyword, a product type;
retrieving, from at least one data structure, a first record comprising products associated with the product type and associated metadata;
determining, based on the first record, whether the search query meets a first condition; and
if the search query meets the first condition:

determining, based on the associated metadata, a plurality of label values,

and for each label value in the plurality of label values:

generating, from the first record, a second record comprising products associated with the label value based on the associated metadata;

determining, based on the associated metadata, whether a subset of the products in the second record meets a second condition that the subset of the products in the second record falls below a threshold value relative to the other products in the second record;

deleting the subset of the products in the second record that meets the second condition from the second record; and

ranking, based on the metadata, each remaining product in the second record;

displaying, on the user device, the plurality of label values for selection;

receiving, from the user device, a selected label value; and

displaying, on the at least one user device, at least a portion of the remaining ranked products associated with the selected label value.

12. The computer-implemented method of claim 11, wherein at least one label value in the plurality of label values is associated with a price range.

13. The computer-implemented method of claim 11, wherein the associated metadata comprises, for each product in the first record:

historical engagement data; and

attributes associated with the product.

14. The computer-implemented method of claim 13, wherein determining a plurality of label value comprises:

determining, for each product in the first record, at least one correlation value associated with the historical engagement data and the attributes associated with the product; and

determining, based on the at least one correlation value, a dimension associated with each label value.

15. The computer-implemented method of claim 11, wherein the associated metadata comprises, for each product in the first record:

a sales volume;

a product rating;

a product review count;

a search rank; or

a seller reliability rating.

16. The computer-implemented method of claim 15, wherein the first condition is met if at least one of the sales volume, the product rating, the product review count, the search rank, and the seller reliability rating fall below the threshold value.

17. The computer-implemented method of claim 11, wherein the portion of the displayed remaining ranked products corresponds to a fixed number of products.

18. The computer-implemented method of claim 17, further comprising determining whether a number of products in the remaining ranked products meets or exceeds the fixed number of products, and displaying the remaining ranked products comprises displaying only a highest ranked product if the number of products does not meet or exceed the fixed number of products.

19. The computer-implemented method of claim 11, wherein the search query meets the first condition if a number of products in the first record exceeds a threshold amount.

20. A computer-implemented system for streamlined product searching, the system comprising:

a memory storing instructions; and

at least one processor configured to execute the instructions to:

receive, from a user device, a search query comprising at least one keyword;

determine, based on the at least one keyword, a product type;

retrieve, from at least one data structure, a first record of product listings associated with the product type, each product listing comprising:

a product;

attributes associated with the product; and

historical engagement data;

determine, based on a number of product listings in the first record, whether the search query meets a first condition; and

if the search query meets the first condition:

determine, for each product in the first record, at least one correlation value associated with at least one of the product, historical engagement data, and the attributes associated with the product;

determine, based on the at least one correlation value, a plurality of dimensions, and for each dimension in the plurality of dimensions:

generate, from the first record, a second record comprising products associated with the dimension;

determine, based on at least one of the product, the attributes associated with each product, and the historical engagement data, whether a subset of the products in the second record meets a second condition that the subset of the products in the second record falls below a threshold value relative to the other products in the second record;

delete the subset of the products in the second record that meets the second condition from the second record; and

rank, based on at least one of the product, the attributes associated with each product, and the historical engagement data of each remaining product listing in the second record;

display, on the user device, the plurality of dimensions for selection;

receive, from the user device, a selected dimension; and

display, on the at least one user device, at least a portion of the remaining ranked product listings associated with the selected dimension.