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;

generate a listing of related products based on the keyword;

rank each related product based on applicability;

determine a product type of at least the highest ranking related product;

determine a filter sequence associated with the product type, the filter sequence comprising an order of filters;

generate a first record comprising the filter sequence, and store the first record in at least one data structure;

instantiate a second record of selected attributes, and store the second record in the at least one data structure;

display, on the user device, a first filter in the filter sequence comprising a first plurality of selectable attributes, wherein displaying a selectable attribute includes displaying a selectable icon including a description of the selectable attribute, a visual representation of the selectable attribute, or both;

receive, from the user device, a first selected attribute from the first filter;

delete the first filter from the first record;

insert the first selected attribute in the second record;

determine, based on consulting the first and second records, whether a second filter in the filter sequence meets a condition for display;

if the second filter meets the condition for display:

display on the user device, the second filter comprising a second plurality of selectable attributes;

receive, from the user device, a second selected attribute from the second filter;

delete the second filter from the first record; and

insert the second selected attribute in the second record; and

display, on the user device, a listing of products associated with the selected attributes in the second record and a recommendation for a similar product based on a machine learning analysis.

2. The computer-implemented system of claim 1, wherein the at least one processor is further configured to, if the second filter does not meet the condition for display:

determine whether a third filter in the filter sequence meets the condition for display; and

if the third filter meets the condition for display:

display, on the user device, the third filter comprising a third plurality of selectable attributes;

receive, from the user device, a third selected attribute from the third filter;

delete the third filter from the first record; and

insert the third selected attribute in the second record.

3. The computer-implemented system of claim 1, wherein determining that a filter in the plurality of filters meets the condition for display comprises:

consulting the first record to determine if the filter exists; and

determining that at least one available attribute in the filter exists.

4. The computer-implemented system of claim 3, wherein an attribute is available if, upon a selection and insertion of the attribute into the second record, at least one product associated with the selected attributes in the second record exists.

5. The computer-implemented system of claim 1, wherein, for at least one filter in the filter sequence, the selectable attribute comprises a visual representation of the selectable attribute.

6. The computer-implemented system of claim 1, wherein the at least one processor is further configured to:

display, for each selected attribute in the second record, an option to remove the selected attribute from the second record;

receive a request to remove the selected attribute in the second record; and

delete the selected attribute in the second record.

7. The computer-implemented system of claim 1, wherein determining the filter sequence comprises retrieving the filter sequence from the at least one data structure.

8. The computer-implemented system of claim 1, wherein determining the filter sequence comprises:

retrieving, from at least one database, historical filter data for a plurality of filters comprising:

an engagement rate for each filter in the plurality of filters; and

a query rate for a plurality of attributes associated with each filter in the plurality of filters; and

generating the order of filters based on the historical filter data.

9. The computer-implemented system of claim 1, wherein ranking each related product based on applicability comprises:

retrieving, in the at least one data structure, historical query data associated with the at least one keyword, the historical query data comprising an engagement rate associated with each related product; and

ranking each related product based on the engagement rates associated with each related product.

10. The computer-implemented system of claim 1, wherein the at least one processor is further configured to:

display, for each displayed filter in the filter sequence, an option to skip the displayed filter;

receive a request to skip the displayed filter; and

delete the displayed filter from the first record.

11. A computer-implemented method for streamlined product searching, comprising:

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

generating a listing of related products based on the keyword;

ranking each related product based on applicability;

determining a product type of at least the highest ranking related product;

determining a filter sequence associated with the product type, the filter sequence comprising an order of filters;

generating a first record comprising the filter sequence, and storing the first record in at least one data structure;

instantiating a second record of selected attributes, and storing the second record in the at least one data structure;

displaying, on the user device, a first filter in the filter sequence comprising a first plurality of selectable attributes, wherein displaying a selectable attribute includes displaying a selectable icon including a description of the selectable attribute, a visual representation of the selectable attribute, or both;

receiving, from the user device, a first selected attribute from the first filter;

deleting the first filter from the first record;

inserting the first selected attribute in the second record;

determining, based on consulting the first and second records, whether a second filter in the filter sequence meets a condition for display;

if the second filter meets the condition for display:

displaying on the user device, the second filter comprising a second plurality of selectable attributes;

receiving, from the user device, a second selected attribute from the second filter:

deleting the first filter from the first record; and

inserting the second selected attribute in the second record; and

displaying, on the user device, a listing of products associated with the selected attributes in the second record and a recommendation for a similar product based on a machine learning analysis.

12. The computer-implemented method of claim 11, further comprising, if the second filter does not meet the condition for display:

determining whether a third filter in the filter sequence meets the condition for display; and

if the third filter meets the condition for display:

displaying, on the user device, the third filter comprising a third plurality of selectable attributes;

receiving, from the user device, a third selected attribute from the third filter delete the third filter from the first record; and

inserting the third selected attribute in the second record.

13. The computer-implemented method of claim 11, wherein determining that a filter in the plurality of filters meets the condition for display comprises:

consulting the first record to determine if the filter exists; and

determining that at least one available attribute in the filter exists.

14. The computer-implemented method of claim 13, wherein an attribute is available if, upon a selection and insertion of the attribute into the second record, at least one product associated with the selected attributes in the second record exists.

15. The computer-implemented method of claim 11, wherein, for at least one filter in the filter sequence, the selectable attribute comprises a visual representation of the selectable attribute.

16. The computer-implemented method of claim 11, further comprising:

displaying, for each selected attribute in the second record, an option to remove the selected attribute from the second record;

receiving a request to remove the selected attribute in the second record; and

deleting the selected attribute in the second record.

17. The computer-implemented method of claim 11, wherein determining the filter sequence comprises retrieving the filter sequence from the at least one data structure.

18. The computer-implemented method of claim 11, wherein determining the filter sequence comprises:

retrieving, from at least one database, historical filter data for a plurality of filters comprising:

an engagement rate for each filter in the plurality of filters; and

a query rate for a plurality of attributes associated with each filter in the plurality of filters; and

generating the order of filters based on the historical filter data.

19. The computer-implemented method of claim 11, wherein ranking each related product based on applicability comprises:

retrieving, in the at least one data structure, historical query data associated with the at least one keyword, the historical query data comprising an engagement rate associated with each related product; and

ranking each related product based on the engagement rates associated with each related product.

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;

retrieve, in at least one data structure, historical query data associated with the at least one keyword, the historical query data comprising an engagement rate associated with each related product;

rank each related product based on the engagement rates associated with each related product;

determine a product type of at least the highest ranking related product;

retrieve, from at least one database, historical filter data for a plurality of filters comprising:

an engagement rate for each filter in the plurality of filters; and

a query rate for a plurality of attributes associated with each filter in the plurality of filters; and

generate an order of filters based on the historical filter data;

generate a first record comprising a filter sequence, and store the first record in at least one data structure;

instantiate a second record of selected attributes, and store the second record in the at least one data structure;

display, on the user device, a first filter in the filter sequence comprising a first plurality of selectable attributes, wherein displaying a selectable attribute includes displaying a selectable icon including a description of the selectable attribute, a visual representation of the selectable attribute, or both;

receive, from the user device, a first selected attribute from the first filter;

delete the first filter from the first record;

insert the first selected attribute in the second record;

determine, based on consulting the first and second records, if a second filter in the filter sequence exists; and

determine if a plurality of available attributes in the second filter exists;

if the second filter and at least one available attribute of the plurality of available attributes exists:

display on the user device, the second filter comprising a second plurality of selectable attributes, and

receive, from the user device, a second selected attribute from the second filter;

delete the first filter from the first record; and

insert the second selected attribute in the second record; and

display, on the user device, a listing of products associated with the selected attributes in the second record and a recommendation for a similar product based on a machine learning analysis.