What is claimed is:

1. A data mediation apparatus comprising:

a processor; and

a storage device, wherein

the storage device retains a data catalog including metadata of one or more items indicating at least one of a summary and a usage condition of each of a plurality of data sets to be mediated, and retains a usage history of each data set, and

the processor calculates an evaluation value indicating a level of quality of each data catalog based on the usage history, and generates an inference model for inferring a value of the metadata of any item included in the data catalog from at least one of a value of the metadata of another item and each data set based on the evaluation value, wherein

the storage device retains information indicating a field of each data set and information indicating a field to which a user of each data set affiliates, and

the processor calculates a first evaluation value based on the usage history regarding the user who affiliates to the same field as the field of each data set and a second evaluation value based on the usage history regarding the user who affiliates to a field different from

the field of each data set, among the usage histories of the data sets, such that the first and second evaluation values have different weights, and calculates the evaluation value indicating the level of quality of each data catalog by combining the first evaluation value and the second evaluation value.

2. The data mediation apparatus according to claim 1, wherein

the weight of the second evaluation value is larger than the weight of the first evaluation value.

3. The data mediation apparatus according to claim 1, wherein

the evaluation value includes an evaluation value of the quality of the data catalog corresponding to the data set, which is input by the user of the data set.

4. The data mediation apparatus according to claim 1, wherein

the usage history of the data set includes at least one of the number of times the data set is purchased, the number of times the data catalog corresponding to the data set is browsed, and the number of times the data set is displayed as a search result, and

the processor calculates the evaluation value based on at least one of the number of times the data set is purchased, the number of times the data catalog is browsed,

and the number of times the data set is displayed as the search result.

5. The data mediation apparatus according to claim 4, wherein

the processor calculates the evaluation value such that as the number of times the data set is purchased becomes larger, the evaluation value becomes a value indicating that the quality of the data catalog corresponding to the data set is high, calculates the evaluation value such that as the number of times the data catalog is browsed becomes larger, the evaluation value becomes a value indicating that the quality of the data catalog is high, and calculates the evaluation value such that the number of times the data catalog is displayed as the search result becomes larger, the evaluation value becomes a value indicating that the quality of the data catalog is high.

6. The data mediation apparatus according to claim 1, further comprising:

a communication device connected to a network, wherein

the processor generates the inference model by using learning data including the data catalog retained in the storage device and a data catalog acquired via the communication device.

7. The data mediation apparatus according to claim 1, wherein

the processor infers the value of the metadata included in the data catalog retained in the storage device by using the generated inference model,

outputs the inferred value of the metadata when the inferred value of the metadata is not included in the data catalog retained in the storage device, and

adds the inferred value of the metadata to the data catalog when an instruction to add the inferred value of the metadata to the data catalog is input.

8. The data mediation apparatus according to claim 7, wherein

the processor generates the inference model regularly or when the number of data catalogs retained in the storage device is changed by a predetermined number after the previous generation of the inference model.

9. The data mediation apparatus according to claim 1, wherein

the processor selects the data catalog for which it is determined that the quality is high based on the evaluation value, and generates the inference model by using, as learning data, at least a part of the selected data catalog and a data set corresponding to the selected data catalog.

10. The data mediation apparatus according to claim 9, wherein

the processor selects the data catalog such that an appearance rate of the value of the metadata included in the selected data catalog approaches an appearance rate of the value of the metadata included in all the data catalogs before being selected.

11. The data mediation apparatus according to claim 9, wherein

the processor generates the inference model by performing semi-supervised learning by using the selected data catalog and the data set corresponding to the selected data catalog as a supervised learning data to which the metadata to be inferred is given and using an unselected data catalog and a data set corresponding to the unselected data catalog as unsupervised learning data to which the metadata to be inferred is not given.

12. The data mediation apparatus according to claim 1, wherein

the processor generates the inference model by using learning data including the evaluation value as an explanatory variable.

13. A data mediation method executed by a computer system that includes a processor and a storage device, wherein

the storage device retains a data catalog including metadata of one or more items indicating at least one of a summary and a usage condition of each of a plurality of data sets to be mediated, and retains a usage history of each data set, and

the data mediation method includes:

calculating, by the processor, an evaluation value indicating a level of quality of each data catalog based on the usage history, and

generating, by the processor, an inference model for inferring a value of the metadata of any item included in the data catalog from at least one of a value of the metadata of another item and each data set based on the evaluation value,

wherein the storage device retains information indicating a field of each data set and information indicating a field to which a user of each data set affiliates, and

the data mediation method further includes:

calculating a first evaluation value based on the usage history regarding the user who affiliates to the same field as the field of each data set and a second evaluation value based on the usage history regarding the user who affiliates to a field different from the field of each data set, among the usage histories of the data sets, such that

the first and second evaluation values have different weights, and

calculating the evaluation value indicating the level of quality of each data catalog by combining the first evaluation value and the second evaluation value.