ABSTRACT

In data access management, a data access request builder module is used to receive data characterizing a data access request and generate one or more knowledge graphs therefrom. One or more knowledge graphs of previously approved data access requests having similarities with the one or more knowledge graphs generated for the data access request can be identified by a model trainer module, to thereby generate a global knowledge graph combining the one or more knowledge graphs generated for the data access request with the identified one or more knowledge graphs, and for determining from the global knowledge graph one or more recommendations for improving probability of approval of the data access request. At least one of the one or more knowledge graphs generated for the data access request based on the generated recommendations can be modified and/or augmented by a compliance engine, to thereby generate a modified and/or augmented data access request.

[Figure 1]