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(57) Abstract :

The present disclosure relates to a system for dynamic data association, analysis, and visual representation in a database-driven user interface, the system includes a data management module (102) configured to: organize and retrieve data from one or more databases and incorporate advanced indexing and search algorithms for real-time responsiveness. An analysis module (104) configured to provide users with a diverse range of analytical approach pertaining to statistical analysis, regression analysis, clustering, classification. A visualization module (106) offers interactive visual representations, allowing users to create dynamic visualizations with functionalities pertaining to filtering, zooming, and highlighting thereby enabling users to perform data association, execute analyses, and visualize results without switching between different interfaces.

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