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(57) Abstract :  
 The present invention discloses a context-aware data imputation system comprising a context extraction unit (101), an imputation strategy selection engine (102), a distributed imputation executor (103), and a validation and feedback module (104). The system dynamically adapts imputation strategies based on data context, missingness patterns, and metadata for large incomplete datasets, ensuring high accuracy, scalability, and continuous improvement. It significantly enhances data completeness, predictive modeling, and decision-making capabilities in big data environments.

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