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विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

BITS Pilani
TECHNOLOGY
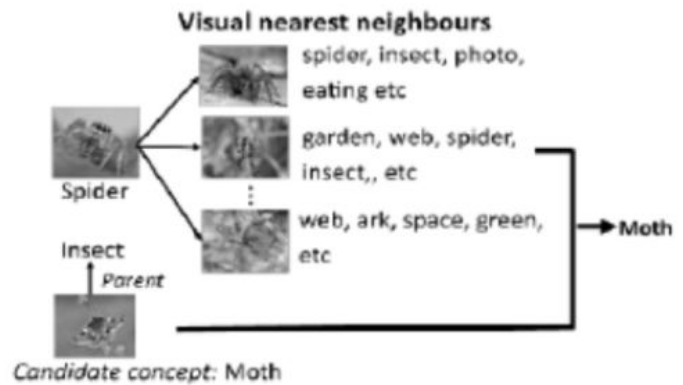**ENABLING**
CENTRE
DST Supported

PENDING

(IN201911031680)
System and method of forming a visio-textual knowledge base

NEED

Managing vast amounts of data across multiple external databases is complex. What if a system could intelligently organize knowledge using parent-child, part-whole, and synonym relationships to form a dynamic and structured knowledge base?

TECHNOLOGY OVERVIEW

This system extracts data from external databases, analyzes relationships (parent-child, part-whole, synonyms), and organizes it into a structured Visio Textual Knowledge Base (VTKB) for improved knowledge retrieval.

MARKET ANALYSIS

The global knowledge management market is expected to grow at a CAGR of 12.5% from 2023 to 2033, driven by the rising need for efficient data organization and retrieval systems. (Source: Research and Markets, 2023)

Target Industries

1) Technology platforms for managing big data and knowledge systems. 2) Service providers offering data analytics and AI solutions. 3) Enterprises needing advanced knowledge organization tools for large-scale operations.

TECHNOLOGY KEY FEATURES

1) Organizes concepts into parent-child, part-whole, and synonym relations. 2) Uses syntactic patterns for efficient relation extraction. 3) Integrates images to enrich concept understanding. 4) Optimizes concept disambiguation.

Read more here

AT A GLANCE

- SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production), SDG 16 (Peace, Justice, and Strong Institutions)

Technology is available for licensing/ co-development.
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