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InformSupply

Integrating Knowledge Graphs with Traditional BI Tools

Capstone Project: Conducted
from August to October 2024

Project Poster

Emotional Journey

Meet the Team.

Jihee Lee
Project Coordinator
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Sheryl Philip Kurien
Quality Manager
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Brenda Chuang
Project Leader
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Tanuja Mantena
Document Manager
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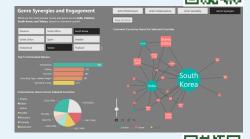**Abid Rahim Khan**
Process Manager
Personal Profile

What is Knowledge Graphs and RDF?

- **Knowledge Graph (KG)**: A network of **entities** (people, places, things) and their relationships, structured to show connections.

- **Resource Description Framework (RDF)**: Forms the foundation of knowledge graphs by modeling data as **triples** (**subject**, **predicate**, **object**).

- Triple Example: (Movie, has actor, Actor)

Subject	Predicate	Object
Avatar	*has actor* →	Joel David Moore

Visualisation Method 1: Power BI (ZoomCharts)

- Power BI Custom Visual
- Subscription-Based Service
- **Cloud Publishing** for Interactive Collaboration

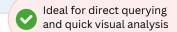 ✅ Highly Interactive with Filters and Slicers

  ✅ Great for Exploratory Data Analysis

Visualisation Method 2: Power BI (NetworkX)

- Manual Setup Through Python Integration
- Manual Setup Through Python Integration
- **Off-line analysis** in Power BI Desktop

Visualisation Method 3 : RDF Database (GraphDB)

  ✅ Ideal for direct querying and quick visual analysis

- SPARQL Query Knowledge required
- Built-in traditional charts with limited customisation