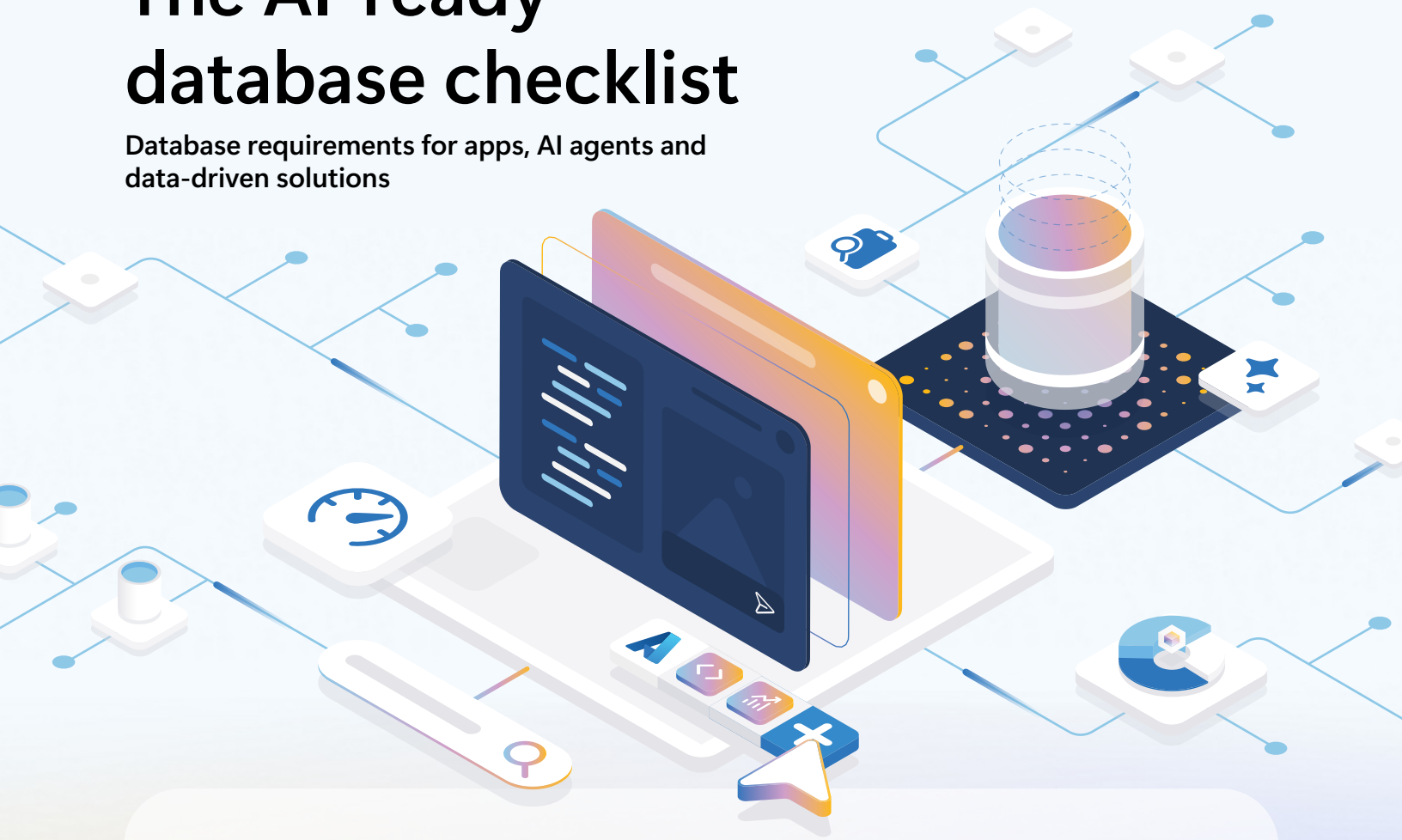
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The AI-ready database checklist

Database requirements for apps, AI agents and data-driven solutions



Is your database AI-optimised?

Look for these essential capabilities:

- **Data at AI scale**
  Capacity and elasticity to handle changing needs
- **Data in real-time**
  Quickly ingest, process and make data available to apps and models
- **Fast and efficient vector support**
  Powerful and cost-effective vector storage, semantic search and approximate nearest neighbour
- **Powerful integrations**
  Seamless connections to AI models, tools and analytics systems

Build AI agents and apps faster with Azure Databases

Azure Databases provide the scale, speed and integrations to power them. Build with confidence, knowing your data is ready for AI.

Azure Cosmos DB	Azure Database for PostgreSQL	Azure HorizonDB	Azure SQL Database
			

Data at AI scale

- Support workloads **of any size**
- **Flexibility to adapt** to changes and new requirements
- Elasticity to **support dynamic workloads**

Fast and efficient vector support

- Ability to natively **store and query vectors**
- Advanced information discovery with **vector search, reranking and semantic search**

Data in real-time

- Provide AI models and analytics platforms with **immediate access to data**
- **Low-latency reads** and writes to apps and agents

Powerful integrations

- Built-in **support for AI models and tools**
- Enable advanced analytics through **real-time access to OLAP systems**
- **Easily integrate** with Microsoft Foundry, Azure Databricks and Microsoft Fabric

AI use cases that Azure Databases are built to power

Learn more

Operational + Vector Database
Keeping operational and vector data together in the same database to reduce complexity and cost

Retrieval Augmented Generation (RAG)
RAG (Retrieval Augmented Generation) Apps to personalise GenAI experiences

Conversational History
Optimise application responses, manage threads and enable auditing

Semantic Caching
Reduce the latency and cost of GenAI experiences

AI agents
Multi-agent and AI agent solutions

Fine-tune SLMs
Use SQL data to fine-tune low latency SLMs used in mobile apps

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