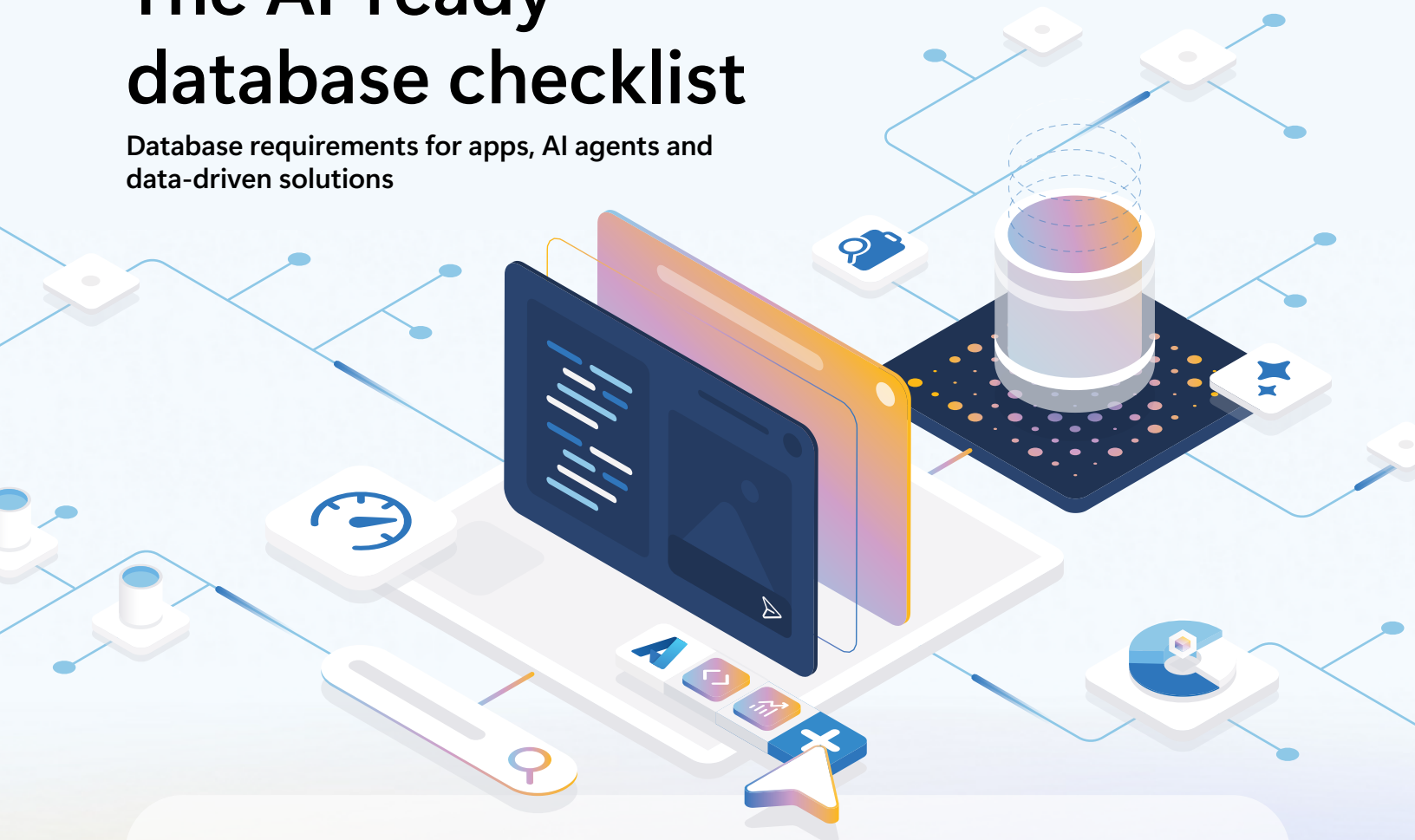


The AI-ready database checklist

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 it. Build with confidence, knowing your data is ready for AI.

Azure Cosmos DB



Azure Database for PostgreSQL



Azure SQL Database



Data at AI scale

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



Data in real-time

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



Fast and efficient vector support

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



Powerful integrations

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

AI use cases 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