

Solving challenges and creating value with Data-architecture

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OVERVIE

• Challenges from GNN Implementations

• Al Architecture - To build or not to build

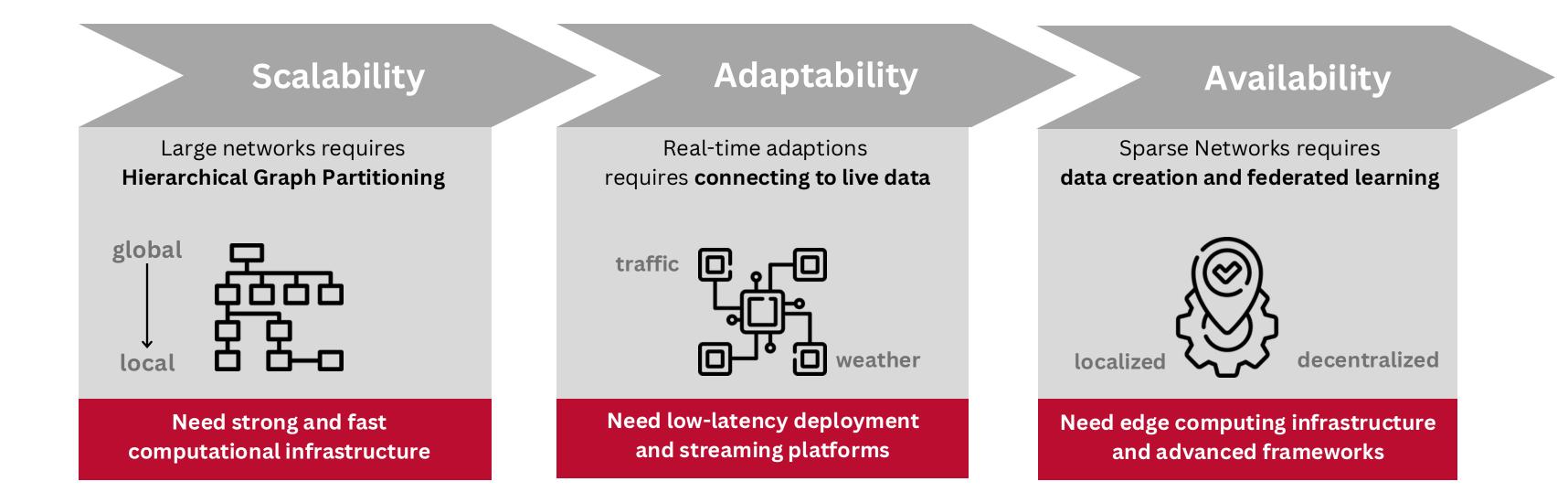
• Enterprise Architecture and Data Strategies

Value Creation





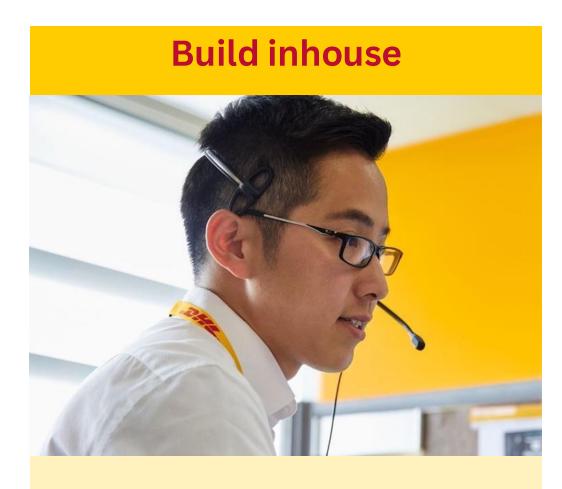
Three Major Challenges deter the success of GNN Implementation



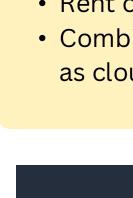
Specialized AI Architectures could mitigate challenges and create value



What will you build vs. acquire from hyperscale cloud providers vs. niche third parties?



- In house talent building LLM models
- Adopt AI with usage in a corporate operation solution



aws





Hyperscale Cloud Providers



- Rent computing power or API
- Combine with existing service such as cloud storage





- Specialized adaption such as visual
- Total solution to better combine AI with operations







Leveraging enterprise architecture to support the scaled development

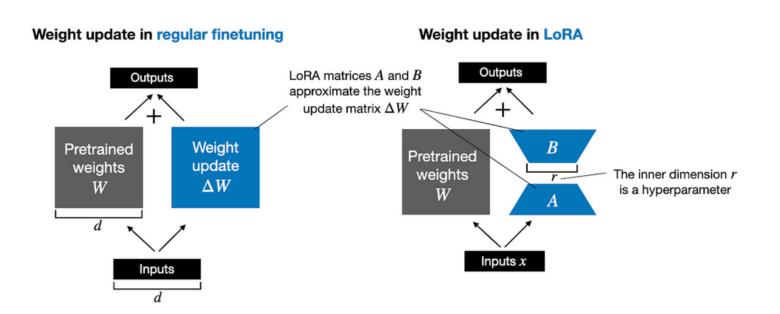
Compute Resources

- Deploy AI workloads on AWS to reduce costs.
- Leverage Kubernetes to optimize GPU usage.
- Invest in Monitoring infrastructure to assess drift



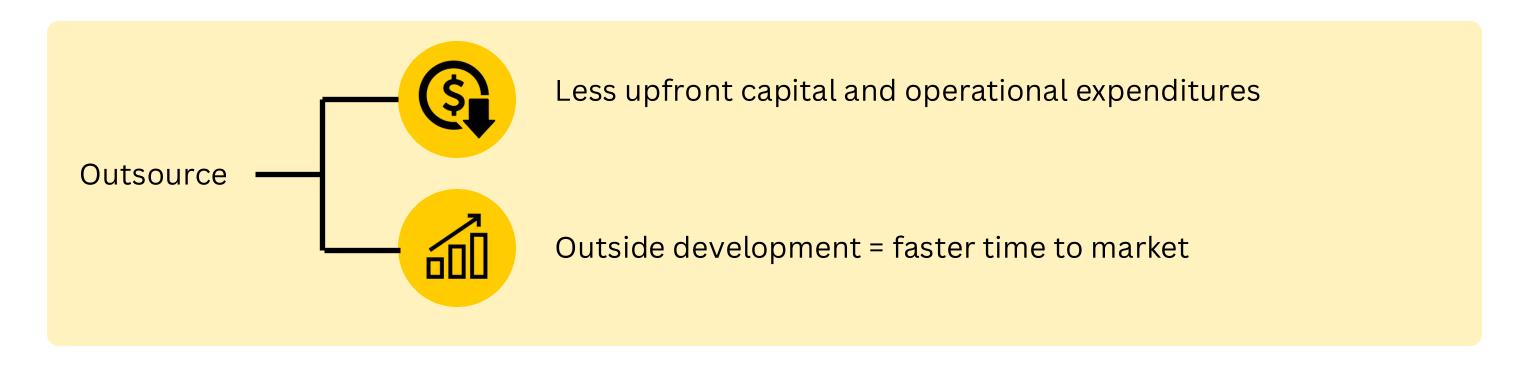
Optimize for Al

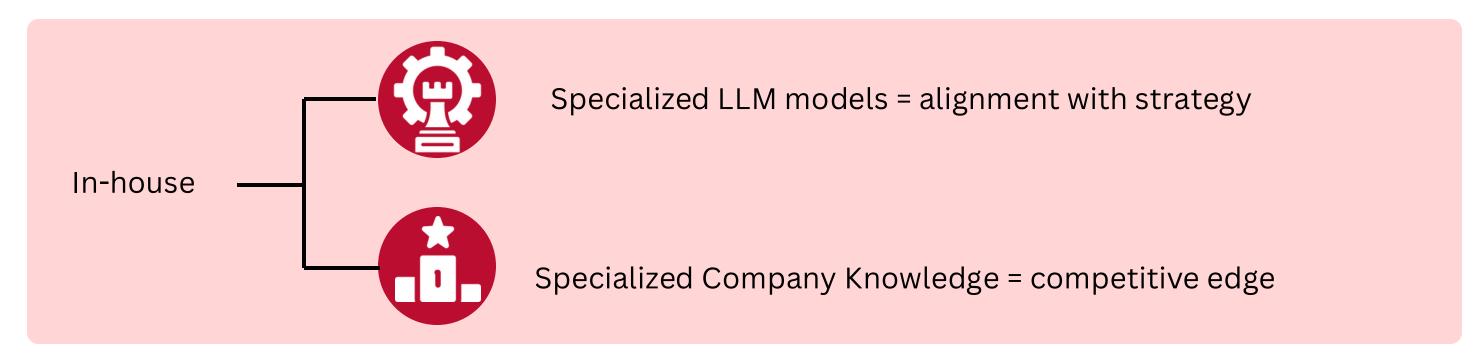
- Optimize ETL & real-time streaming pipelines for dynamic decision-making.
- Model quantization to reduce latency and compute load.
- LORA for faster inference on more specific predictions





Combining In-House with Third-Party Solutions to Maximize Cost Efficiency and Competitive Edge







Leveraging Enterprise Architecture to **Drive Operational**Savings and Business Innovation

Infrastructure Optimization

Cloud Platforms:

- Scalability
- Flexibility
- Orchestartion

Resource Efficiency

Model Quantization and Pipelines:

- Lower overhead
- Faster,responsive systems

Agile Operations

Robust IT Framework

- Flexible and adaptable
- React quickly to new opportunities

Continuous Innovation

Al-driven products and services

- Market Expansion
- New industries: SaaS, E-com Management







Q&A