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Best IT employer in Ukraine

Data Engineering Service

We breathe life into **great ideas** with the power of **digital technology**

Imagine if you could
ADDRESS
the following problems:

Data silos preventing you from having an integrated view of company's performance
38% of decision-makers see data silos as one of the biggest challenges of delivering a good customer experience (Forrester)

You've spent a fortune on data, but it gives little to no business benefits
55% of data collected by companies is not used (Priceonomics)

Inaccurate assumptions and biases affect your decision making
Only 24.4% of companies have forged data-driven cultures within their organizations (New Vantage Partners)

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Service Overview

We build a scalable end to end data processing solution for extracting meaningful insights from company's data by consolidating all data sources regardless of their size, complexity or structure.
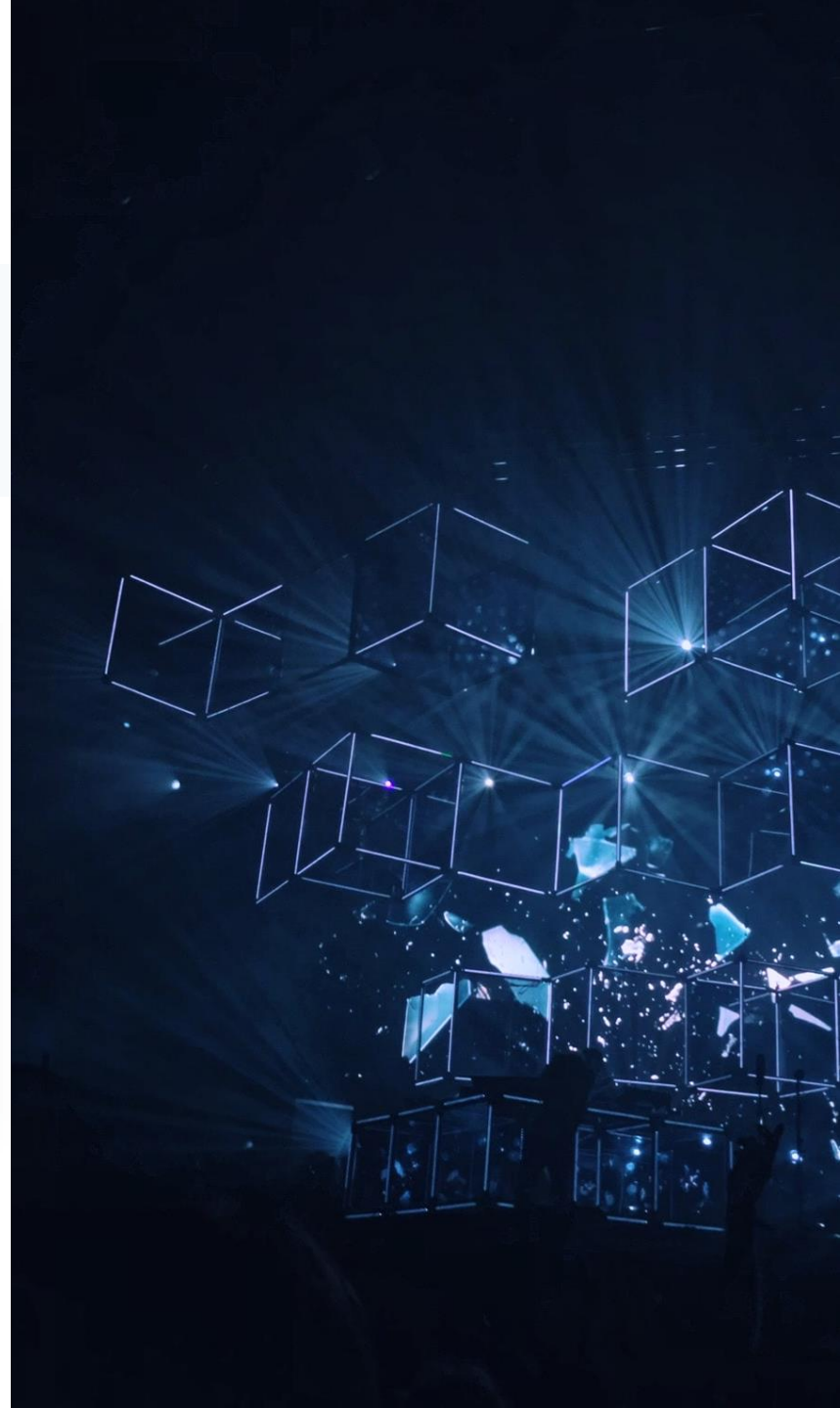
DELIVERABLES

- Working solution deployed to your infrastructure
- Source code
- Technical documentation
- User guide

TYPICAL TEAM

- Typical Team:
- Data Architect
- Data Engineers
- BI Engineers
- Data Scientists & Analysts
- Business Analyst
- DevOps
- PM

Our Expertise

ETL / ELT / Integration

- Extracting data from multitude of data sources (REST API, FTP, web scraping, legacy systems with proprietary protocols)
- SPC and monitoring

Batch processing

- Efficient processing regardless of data size (PBs) or complexity (structured, semi-structured or unstructured)

Data architecture & modelling

- DWH, data lake, data lakehouse, data hub, OLTP database design and implementation

Stream processing

- Real-time processing of millions of rows per second with minimum latency

Big data solutions

- Built using cloud native, cloud agnostic and on-premises platforms
- Cost optimization & performance tuning

Security

- Encryption at rest and in transit
- Data masking and obfuscation
- RBAC and data access monitoring
- Row-level security implementation

Enabling Analytics

<table>
<tr><th>DATA WAREHOUSING</th><th>DATA LAKE</th></tr>
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DATA WAREHOUSING

Modelling approaches

- Data Lakehouse
- Linstedt's Data Vault
- Kimball's Dimensional DWH

We design for

- Enabling self-service analytics and data mining
- Seamless integration of heterogenous data sources
- Scalability and minimal latency
- History preservation and time travel functionality
- Auditability and data profiling

DATA LAKE

Design
Storing structured, semi-structured & unstructured data. Enabling self-service, automatic data discovery and cataloging

Performance tuning
Partitioning and bucketing, file format and size limits selection

Cost optimization
Archive and retention strategies, compression options

Compliance
Ensuring privacy, implementing data obfuscation and encryption, access management

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Our Approach to Delivering Data Solutions

Discovery and Assessment	Solution Design	Solution Implementation	Continuous Improvement
• Assess business needs, goals and requirements • Review limitations, challenges and issues	• Create an architectural vision • Outline a SMART implementation roadmap • Agree on the scope, deliverables, timelines, and budget	• Setup DataOps & MLOps • Define data model • Extract data and transform it • Implement data analytics and BI • Implement ML / AI	• Gather feedback for further improvements • Infrastructure support

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Business Outcomes

Better and faster insights into market

- Data-driven companies are 23 times more likely to acquire customers than their peers (Forbes)

Increased operational efficiency and cost savings

- Businesses who use big data saw a 10% decrease in overall costs (Entrepreneur)

Increased revenue

- Data-driven companies are 58% more likely to beat revenue goals than those who are not focused on data (Forrester Consulting)

Reduced risk of errors and mistakes on all levels

- Big data helps make better, faster decisions over the competition. In fact, 93% of organization placing high emphasis on data feel this way (Splunk)

Success Stories

CLIENT	**The Nordic based Credit management company, that focuses on non-performing loans**	**One of the top tire and rubber products manufacturers in the world**	**A major national telecommunications company**
SOLUTION	An end-to-end analytical platform that covers BI / reporting and advanced analytics needs	An end-to-end analytical platform that covers BI / reporting and advanced analytics needs	Migration of an existing data infrastructure to Azure and building a scalable platform for AI/ML
BUSINESS OUTCOME	• Power BI reports greatly reduced manual work done by most departments • Client segmentation tool reduced risk involved in loan approval process • Much better insights into business performance	• Real-time insights into regional sales potential and performance as well as growth opportunities for customers in a given region • Predictive inventory management and win-win stock proposals for customers	• Seamless transition of business functions from on-premises to the cloud • Reduced TCO by adopting native Azure services

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Thank you!

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