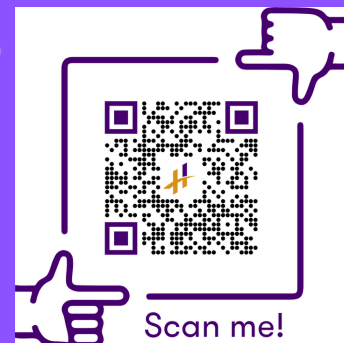


Data Science & Data Engineering Services

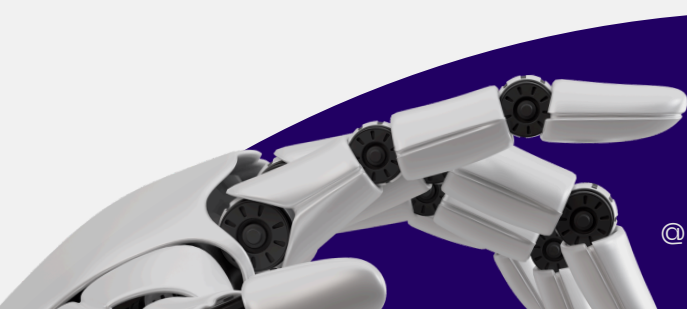
*Transform Raw Data
Into Competitive
Business Advantage*



Data Science & Data Engineering Services



- Introduction
- Our Data Science & Data Engineering Capabilities
- Technology and Platform Stack
- Business Outcomes You Can Expect
- End-to-End Data Lifecycle Services
- Why Choose Hanumanta Consulting for Data Science
- Common Questions About Data Science





Introduction

Modern businesses generate massive volumes of data daily, but without the right infrastructure, that data remains trapped in silos—disconnected, underutilized, and unable to drive decisions. The gap between data collection and data-driven action is where competitive advantage is lost.

At Hanumanta Consulting, we build the data foundations that turn fragmented information into trusted intelligence. We design scalable data ecosystems that enable analytics, artificial intelligence, and faster business decision-making—helping you move from reactive reporting to proactive strategy.

Whether you're a growing startup scaling your data infrastructure or an established enterprise modernizing legacy systems, we deliver engineering excellence with startup agility.

Our Data Science & Data Engineering Capabilities

- Modern Data Architecture & Platform Engineering
- Intelligent Data Pipeline Development
- Data Governance, Security & Compliance
- Advanced Analytics & Data Science Solutions
- Real-Time Data Processing & Intelligence





1) Modern Data Architecture & Platform Engineering

Build a unified data foundation that scales with your business.

We design cloud-native data ecosystems that bring together structured and unstructured data from across your organisation into a single source of truth.

Our approach includes:

- **Cloud Data Lakes & Warehouses**

Centralised storage optimised for analytics and machine learning workloads

- **Lakehouse Architecture**

Combine the flexibility of data lakes with the performance of data warehouses

- **Enterprise Data Modelling**

Design schemas that support both operational systems and analytical queries

- **Multi-Source Data Integration**

Connect APIs, databases, SaaS platforms, and legacy systems seamlessly

Why it matters: Without proper architecture, every new data source becomes another silo. We ensure your infrastructure can grow without becoming more complex.



2) Intelligent Data Pipeline Development

Automate the journey from raw data to business insights.

We build robust, automated pipelines that eliminate manual data work and ensure your teams always work with fresh, reliable data.

Our pipelines:

- **Extract**

Data from APIs, applications, databases, and legacy systems

- **Clean and standardise**

Inconsistent formats and handling missing values

- **Deliver**

Analytics-ready datasets to your BI tools, dashboards, and ML models

- **Transform and enrich**

Data with business logic and external sources

Why it matters: Manual data preparation wastes time and introduces errors. Automated pipelines free your team to focus on analysis and decision-making, not data wrangling.



3) Data Governance, Security & Compliance

Know where your data comes from, who can access it, and that it's accurate.

We implement enterprise-grade governance frameworks that ensure data quality, security, and regulatory compliance without slowing down innovation.

Our governance solutions include:

- **Data lineage tracking**

Trace data from source to report to understand dependencies and impact

- **Data cataloging**

Centralized inventory that makes data discoverable across teams

- **Quality validation**

Automated checks that flag anomalies and ensure accuracy

- **Access control & security policies**

Role-based permissions that protect sensitive information

Why it matters: Poor data governance leads to compliance violations, unreliable analytics, and wasted resources fixing data quality issues. Strong governance builds trust in your data.



4) Advanced Analytics & Data Science Solutions

Move beyond dashboards to predictive intelligence and automation.

We help businesses transition from "what happened?" to "what will happen?" and "what should we do about it?"

Our data science capabilities:

- **Machine Learning Models**

Build custom algorithms tailored to your business problems

- **Predictive Analytics**

Forecast demand, churn, inventory needs, and revenue

- **Customer Behaviour Analytics**

Understand purchase patterns, segment audiences, and personalise experiences

- **Risk & Fraud Detection**

Identify anomalies and suspicious patterns in real-time

Why it matters: Descriptive analytics tells you what happened. Predictive analytics helps you stay ahead of market changes and make proactive decisions.



5) Real-Time Data Processing & Intelligence

React to business events as they happen, not after they're in a report.

We build streaming data platforms that enable instant visibility and automated responses to critical business events.

Real-time capabilities:

- **Monitor KPIs and operational metrics continuously**
- **Detect anomalies, outages, or fraud the moment they occur**
- **Trigger automated workflows based on data conditions**
- **Enable live dashboards for operations teams and executives**

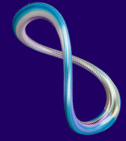
Why it matters: Batch processing means decisions are based on yesterday's data. Real-time processing gives you the agility to respond to opportunities and threats immediately.



Technologies & Platforms We Work With

We work with modern, proven technologies that scale:

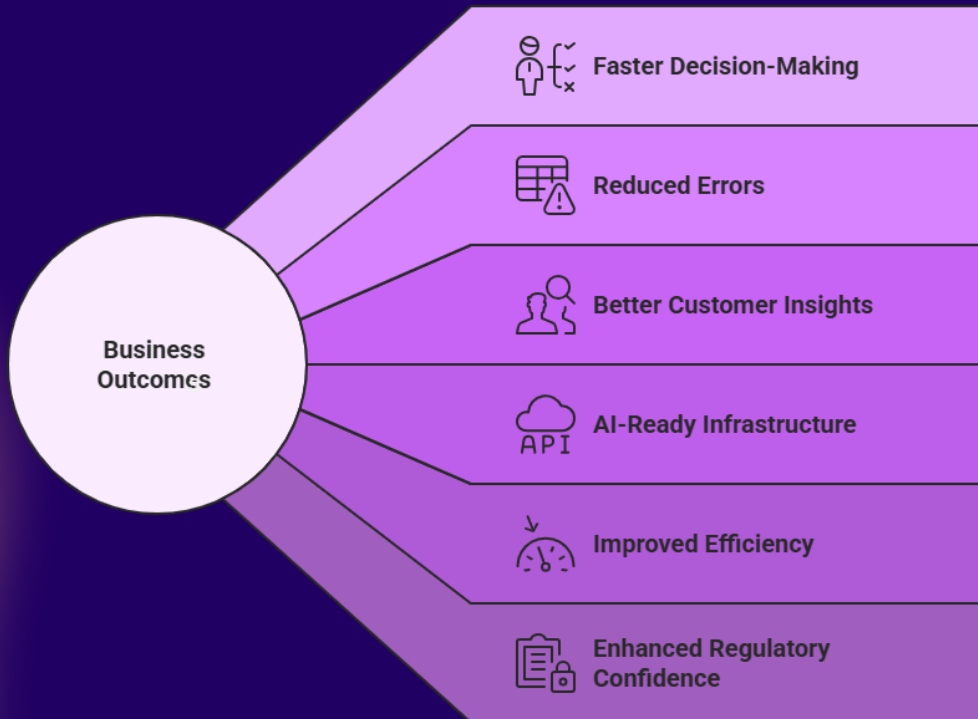
- **Cloud & Data Platforms**
AWS • Azure • Google Cloud • Snowflake • Databricks
- **Data Processing & Orchestration**
Apache Spark • Apache Kafka • Apache Airflow • Azure Data Factory • dbt
- **Analytics & Visualization**
Power BI • Tableau • Looker • Metabase
- **AI/ML Stack**
Python • TensorFlow • PyTorch • Scikit-learn • MLflow
- **Data Quality & Governance**
Great Expectations • dbt Tests • Apache Atlas



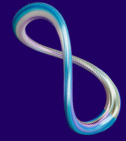
Business Outcomes You Can Expect

Working with Hanumanta Consulting delivers measurable impact:

Unveiling the Multifaceted Benefits of Data Optimization

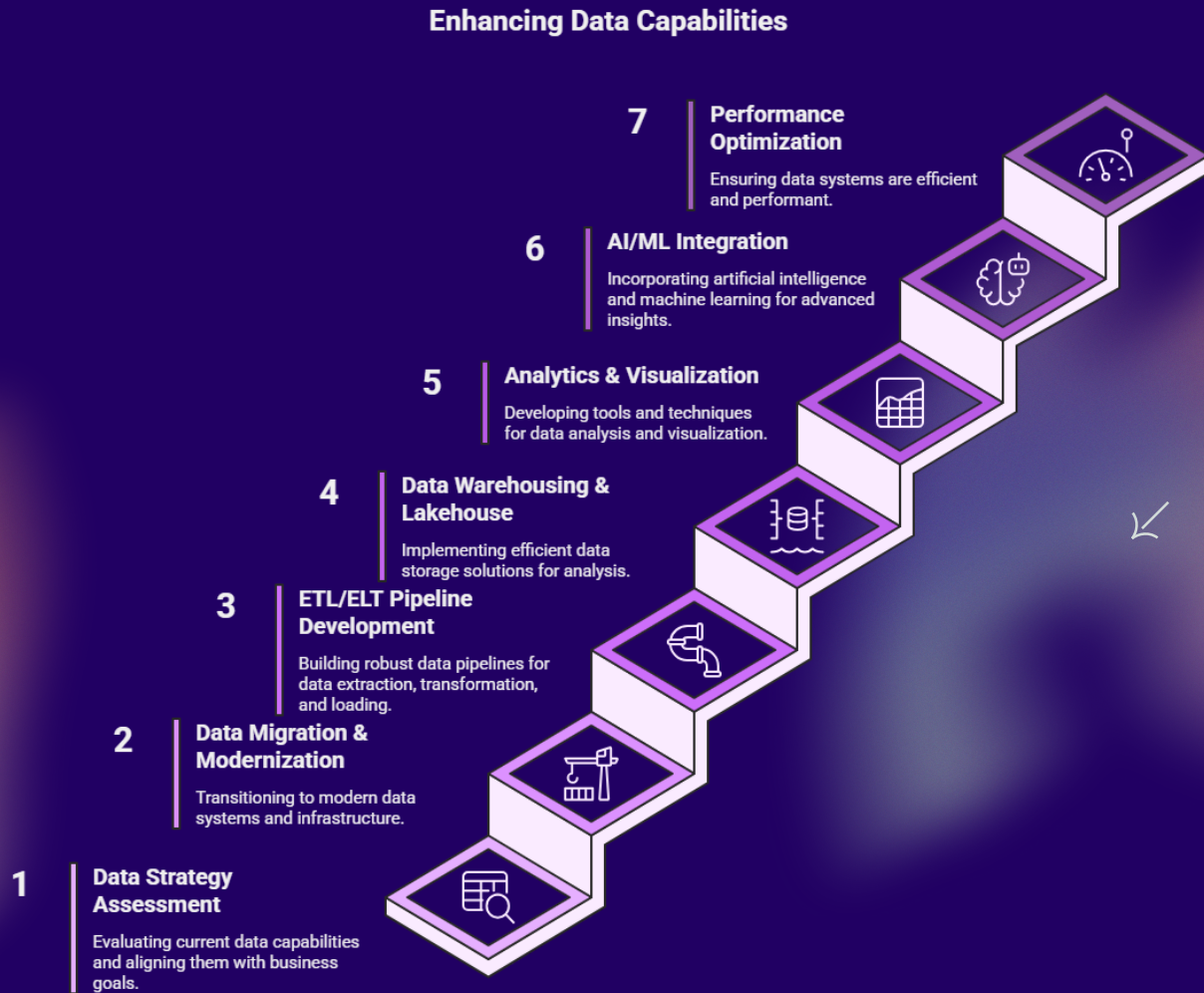


- **Faster decision-making:**
Teams spend less time gathering data and more time acting on insights
- **Reduced errors and manual work:**
Automation eliminates repetitive data preparation tasks and improves accuracy
- **Better customer insights:**
Unified data reveals patterns that drive personalisation and retention
- **AI-ready infrastructure:**
Scalable foundations that support machine learning without rebuilding
- **Improved efficiency:**
Optimized queries, storage, and pipelines reduce cloud costs while improving performance
- **Regulatory confidence:**
Governance frameworks ensure audit readiness and compliance

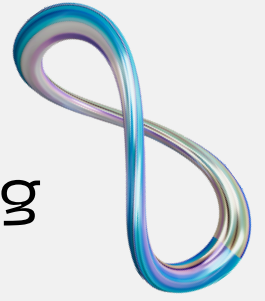


End-to-End Data Lifecycle Services

We support your entire data journey—from strategy through execution to ongoing optimization:



- 1. Data Strategy & Assessment:** Evaluate current capabilities and design a roadmap aligned with business goals
- 2. Data Migration & Modernization:** Move from legacy systems to modern cloud platforms without disruption
- 3. ETL/ELT Pipeline Development:** Build reliable, scalable data movement and transformation processes
- 4. Data Warehousing & Lakehouse Implementation:** Deploy centralized analytics infrastructure
- 5. Analytics & Visualization:** Create dashboards and reports that drive action
- 6. AI/ML Integration:** Embed predictive models into business applications
- 7. Performance Optimization & Monitoring:** Ensure systems run efficiently as data volumes grow



Why Choose Hanumanta Consulting for Web Development

Startup agility, enterprise quality

We move fast without cutting corners. You get the responsiveness of a startup with engineering practices proven at scale.

Business outcomes first

We don't build data infrastructure for its own sake. Every pipeline, model, and dashboard is designed to solve specific business problems and deliver measurable ROI.

Future-ready architecture

We design systems that scale with your growth—from thousands to millions of records, from batch to real-time, from analytics to AI.

Pragmatic approach to governance

Data governance doesn't have to be bureaucratic. We implement frameworks that protect data quality and compliance without slowing down innovation.

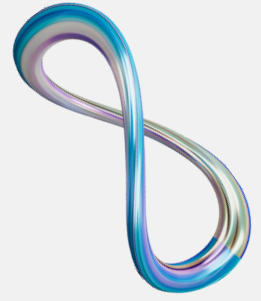
Seamless integration with existing systems

We work with what you have. Whether you're on legacy infrastructure or modern cloud platforms, we build bridges that connect your ecosystem.

Cost-optimized cloud solutions

We design architectures that balance performance with cost. No over-provisioning, no unnecessary services—just efficient infrastructure that delivers value.





Common Questions About Data Science

How long does a typical data engineering project take?

It depends on scope, but initial infrastructure (data warehouse + core pipelines) typically takes 8-12 weeks. We prioritize getting foundational systems live quickly, then iterate with additional sources and transformations.

Do we need a data team in-house to work with you?

No. We can work independently or augment your existing team. Many clients start with us handling full implementation, then transition to internal teams for ongoing management.

Can you work with our existing data infrastructure?

Absolutely. We specialise in integrating with legacy systems, cloud platforms, and SaaS tools. Migration doesn't have to be all-or-nothing.

What's the difference between a data lake and a data warehouse?

Data lakes store raw data in its native format (flexible but requires processing). Data warehouses store structured, transformed data (optimized for queries but less flexible). Lakehouses combine both approaches.

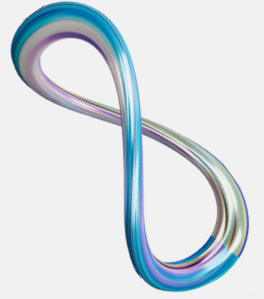
How do you ensure data quality?

We implement automated validation at every pipeline stage: source data checks, transformation tests, and output validation. Quality rules are versioned and monitored continuously.

What industries do you work with?

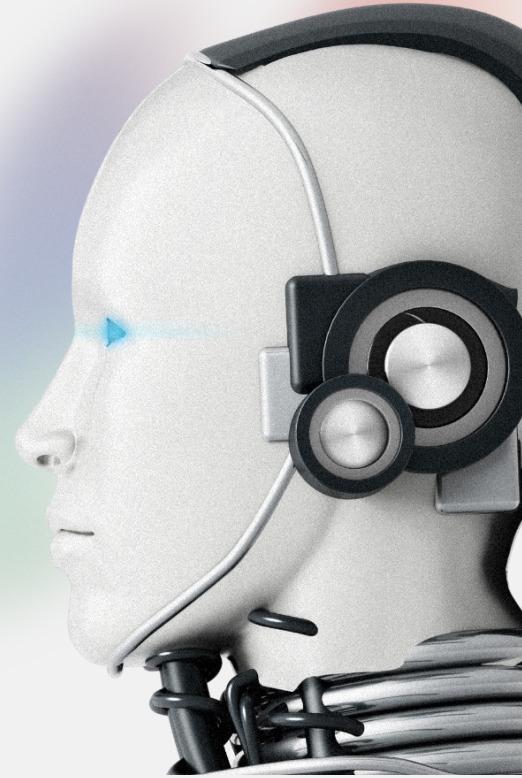
We've delivered data engineering solutions for fintech, healthcare, e-commerce, logistics, SaaS companies, and professional services. The principles of good data architecture apply across industries.





Ready to Build Your Data Foundation

**WHETHER YOU'RE STARTING
FROM SCRATCH OR
MODERNIZING EXISTING
INFRASTRUCTURE, WE HELP
YOU TURN DATA CHAOS INTO
COMPETITIVE ADVANTAGE.**



**BOOK A
CONSULTATION** ↙

Visit our website via scanning
QR code and book a free audit