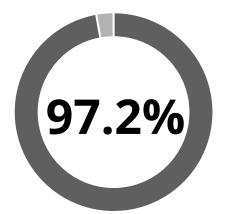




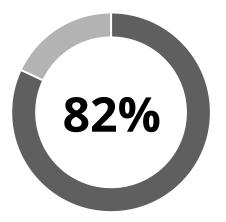
The collaboration between Cloud, Big Data, and AI is a powerful synergy that is driving innovation, efficiency, and new possibilities across various industries.

50%

By 2027, more than 50% of enterprises will use industry cloud platforms to accelerate their business initiatives. Gartner, 2023



As of 2022, 97.2% of organizations are currently making investments in AI and big data.
Findstack, 2022



In 2023, 82% of organizations plan to boost their investments in data modernization, with a focus on big data and AI/ML.
Forbes, 2023



Together, these <u>three technologies</u> have a synergistic effect.



Data Storage and Scalability

**Data Processing and Analytics** 

# **AI** Model Training

**Resource Allocation and Cost Efficiency** 

**AI-Enhanced Data Analysis** 

**Real-Time Processing and Automation** 

Innovation and Rapid Risk Management

Development Targeted Marketing and Advertising

Operational Efficiency Enhanced

**Process** Decision-Making

**Automation** Predictive Maintenance

**Predictive and Prescriptive Analytics** 



# **Global Use Case**

# NETFLIX

**Netflix** leverages big data to revolutionize the entertainment industry. Initially started as DVDs delivery services to streaming platforms, they **personalize the user experience** by analyzing subscriber activity. Netflix original shows like "House of Cards" is developed by utilizing big data to ensure a global appeal and enhance the overall streaming experience.

INGS





## **Blendata's Success Case**

#### Insurance Lead Qualification

#### **Customer Challenge**

An insurance company with over 1 million customer contacts wanted to identify the most promising potential customers to purchase specific insurance products and send the list to the direct sales team.

#### Solution

Propensity models are trained with historical data of previous policyholders to find common characteristics, interests, or behaviors. These rules are then applied to a contact list to identify potential leads.

#### Outcome

Over two months, the model resulted in an average **17.49% conversion rate increase** when contrasted with the group that didn't employ the model for lead qualification.

# **Telecommunication Near Real-Time Campaign Triggering**

#### **Customer Challenge**

The company prefers sending campaigns in real-time to their customers when they are in target locations to enhance customer engagement. But identifying the customer's location and real-time processing is crucial.

#### **Outcome**

Process data from signal towers providing customer's location by analyzing their history of accessing particular base stations, and trigger personalized campaigns to millions of customers whenever they enter assigned locations

- Reduce time to process from hour(s) to a few seconds
- Over 330,000 events processed per second





# **Big Data Life-Cycle**

#### **Based on CRISP-DM Methodology**

Step 6 Step 1 Step 2 Step 3 Step 4 Step 5 **Business Issue** Business Visualization and **Business Business Analysis** Validation Understanding Understanding Presentation and Modeling Preparation Develop methodology Communicate results Define business Collect initial data Gather data from **Evaluate results** objectives multiple sources Determine important Determine best method Identify data **Review process** to present insights based Gather required Cleanse variables requirements Determine next steps on analysis and audience information Build model Determine data **Format** Results are valid Craft a compelling story Determine appropriavailability Blend Assess model proceed to step 6 -> ate ate analysis metod Make recommendations Explore data and Results are invalid Sample Clarify scope of work characteristics revisit steps 1-4 **Identify deliverables** 



# **Big Data Life-Cycle** 2023 - 2024

# **Need Scaling Capability**

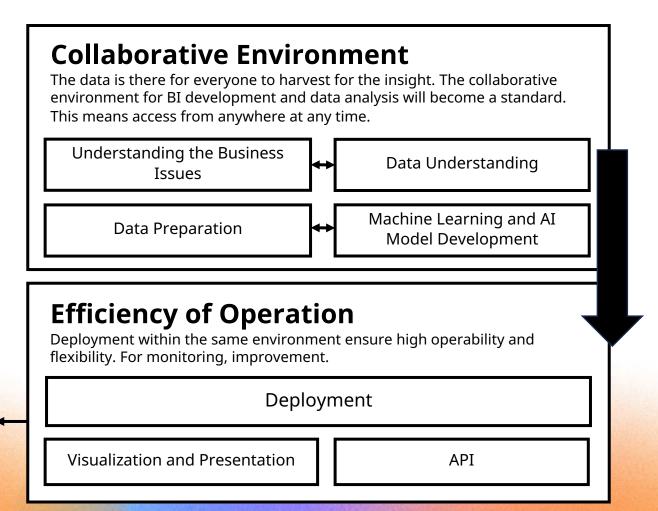
Continuous **Improvement** 

#### **Data Collection and Storage**

Data are cumulatively collected. The scalability of datastore is crucial to ensure we have what it takes to maximize the benefits of big data analytics.

#### **Feedback Loop and Optimization**

DevOps, MLOps is inevitable. Integration with scalability is crucial to CI/CD in data operation.





# **Big Data Analytics Transforming Public Services**

## **Users:**







**Government Officers** 

External Government Agencies

**Citizens / Businesses** 

### **Big Data Analytics Transforming Public Services**



#### **Data Sources Collected:**

# National Statistical Demographic info Vital records



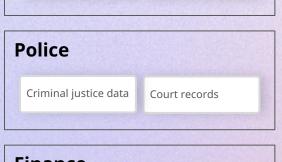
Disease Surveillance

**Public Health** 

Health and Medical

Data





Data

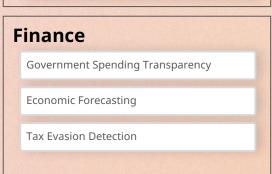




#### **Big Data Analytics Use Cases**









# **Simplify Data-Driven Success**

Founded 2015

Faster Time to Market 3 Times\*

Customers
8 industries
40+ use cases



We offer technology, tools, and professional services to simplify your data-driven journey.



# Services

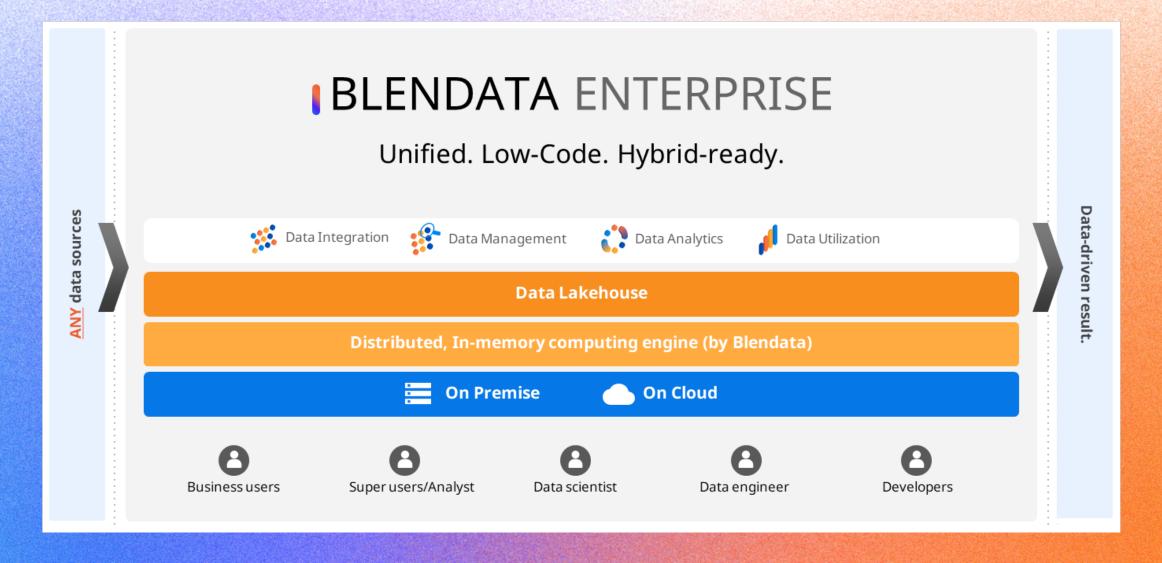
Blendata Consult Service

Blendata Training Service

Blendata Professional Service

Analytics as a Service

# **Simplified** Big Data Platform





# Thank You

