# Zensar's Data Buddy - Data Tech Modernization

AI-powered data and code transformer

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# *Why* do we need Data Tech Modernization

## What are the businesses doing?

Businesses are revolutionizing their data strategies with cutting-edge data modernization tools. These tools streamline operations, slash costs, and boost efficiency, empowering businesses to unlock the full potential of their data

## What are the challenges?

- **Legacy Codebase Maintenance:** It is difficult for businesses to adapt to new technologies if they have outdated or poorly maintained legacy codebases

- **Language Obsolescence:** Some programming languages may become outdated or less popular, making it challenging to maintain its codebases

- **Integration Challenges:** Integrating different systems and components built using various languages can be complex and error-prone

- **Performance and Scalability Issues:** Legacy codebases may struggle to handle increased data volumes or modern workloads, leading to performance bottlenecks and scalability issues

## Throwing light on some facts

**20-30%**

of development costs can be reduced by adopting data tech modernization as per a 2023 McKinsey study

**60%**

of organizations struggle with integrating different component built using different technologies as per a survey by Capgemini

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**About us:** Zensar is a global technology consulting and services company with a strong presence across 30+ locations and a team of over 11,500 associates. We empower over 145 leading enterprises to drive disruption, agility, and competitiveness through our expertise. Our focus lies in conceptualizing, designing, engineering, marketing, and managing digital products and experiences for high-growth companies seeking innovation and velocity.

Our offering, *Zensar's Gen AI Data Buddy - Data Tech Modernization*: is a generative AI-infused service. It helps
- modernize legacy code efficiently with AI
- in improving interoperability by facilitating integration between systems
- optimize legacy code for better performance and handle increased workloads
- businesses to reduce code maintenance costs
- cut across multiple industries and can be repurposed across environments

With our team of experts and AI-driven efficiencies, we accelerate time-to-market intervals, enhance innovation, and deliver high-quality solutions for our clients.

# Data Buddy: Data tech Modernization Key Features

## Unleash power of AI to streamline operations and increase scalability of existing data

### 01. Code Conversion

- Convert code between different programming languages
- Preserve the functionality and code quality

### 02. Best Code Recommend

- Provide the code following the best practices
- E.g.: With proper error handling, Security and others.

### 03. Dependency Manage

- Handle dependencies on libraries and frameworks
- Converted code functions correctly in the new environment

### 04. Code Refactoring

- Refactor the code to maintain its functionality
- Improve readability, maintainability and performance

### 05. Integration with Systems

- Seamlessly integrate with existing tools, frameworks, workflows
- Ensure that no link or dependency is broken

# Data Buddy: Data tech Modernization Benefits

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## Data Buddy optimizes infrastructure and streamlines operations to cut costs and boost efficiency

### 01. Cost Savings

**20-30% savings**

Maintenance costs reduces due to usage of latest up-to-date modernized systems

### 02. Operational Efficiency

**15-25% improvement**

Streamlined data processes and integration leads to efficiency gains

### 03. Ensure Scalability

**2x-3x**

Modernized systems can handle larger data volumes

### 04. Agility

**40-50% increase**

Quickly, effectively access, process, and analyze data to drive development

### 05. Risk Management

**~ 20% enhanced**

Mitigates risks through improved code quality, security, and adherence to standards

\* % numbers are average and based on our past experiences and could change based on scenarios and complexities

## Legacy System Modernization

- Convert legacy code from outdated languages to modern languages

- Convert code to a more readable and maintainable format reducing future development costs

## Technology Upgradation

- Convert code to use updated versions of required libraries and frameworks

- Revamp the code to improve its maintainability, readability, modernity and efficiency

## Master Data Management

- Creating a single, consistent view of master data

- Ensuring data accuracy, completeness, and consistency. Data governance to manage master data

## Data Warehousing and Analytics

- Upgrading outdated data warehouses to improve performance, scalability, and data quality

- Leveraging cloud-based data warehouses for flexibility, scalability, and cost-effectiveness

# *How* we do it – 5 Day Plan

Zensar's structured approach to Data Transformation via Data Explorer is executed with below steps

| Day 1: Assess | Day 2: Evaluate | Day 3: Review | Day 4: Rationalize | Day 5: Next Steps |
|---|---|---|---|---|

**Discovery & Need Assessment**

- Understand customer business and **objectives**
- Identify **current data management tool, technology, workflows**
- Identify **pain points** and where all modernization is required
- Clearly articulate the findings

**Explain Data Tech Modernization**

- **Module Demonstration**
- Evaluate the tool's compatibility with existing system and infrastructure
- Evaluate the relevance of existing language infrastructure to customer demands
- Code conversion, refactoring, manage dependencies

**Hands-on Exploration & Use Case Identification**

- **Dive into Customer Data:** Explore sample data using Data Tech Modernization
- **Focus on Customer Needs:** Explore module mapping to use cases
- **Unlock Data Potential:** How Data Tech Modernization can address customer's challenges

**Integration & Benefits Analysis**

- **E**xplore potential integrations with customer's existing infrastructure and tools
- **Increased Efficiency & Improved Insights:** Analyze the potential benefits of using Gen AI Data Tech Modernization in terms of speed, quality, improved capabilities

**Wrap-up & Next Steps**

- **Key Findings & Value Proposition:** Summarize assessment and discuss the potential value our tool can bring
- **Address Concerns:** Answer remaining questions/ concerns
- **Steps Forward:** Discuss next steps, including potential pilots/ consulting as per customer needs

# Why partner with us?

- We follow Privacy & Security by Design

- Varied skilled team of AI experts, Prompt Engineers & SMEs across geographies

- We leverage due diligence and explainable AI by design

- Train faster & shorten GTM

- Cost effective solutioning

- Right partner to create co-sell AI solutions

- Unlock full potential of existing Data Assets with Zensar's AI Model: Thrive in today's data driven fast moving world by investing in modernizing the data infrastructure

# Next Steps

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Take your next step with us by scheduling a 30 min discussion with our experts.

**Contact:** data.buddy@zensar.com

Zensar helps businesses understand and utilize the benefits of generative AI through brainstorming and conversations with your team. By bringing together our AI specialists we will dive into your organization's unique needs and goals and help identify if our solution is suited to your specific business scenarios & if there is any other solution that we offer that can drive the most significant benefits from generative AI.

Together we can determine the next steps based on the results of the initial conversations. This may involve conducting a 5-day comprehensive assessment to evaluate the use case and the possibilities of pursuing a Proof of Concept (PoC) or Minimum Viable Product (MVP) build to demonstrate the value of the technology.