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Zensar's Data Buddy – Knowledge Curation

AI based code-to-documentation tool

Why do we need Knowledge Curation

What are the businesses doing?

Businesses are adopting knowledge curation tools to streamline information management, foster collaboration, centralize resources, and facilitate innovation along with knowledge sharing among teams

What are the challenges?

- **Time-consuming:** Creating detailed and accurate documentation manually is a time-consuming and error-prone process
- **Inconsistent documentation:** Manual documentation can be inconsistent, incomplete, or outdated
- **Difficulty keeping documentation up-to-date:** As software projects evolve, it is challenging to keep documentation in sync with the codebase.
- **Lack of standardization:** Difficult to maintain consistency and ensure understandability to all stakeholders.
- **Knowledge transfer:** When developers leave a project, it can be difficult to transfer knowledge to new team members without proper documentation

Throwing light on some facts

30-50%

Knowledge curation tools can reduce the time it takes to find and access information- As per McKinsey reports

2x

Organizations using knowledge curation tools are more likely to innovate successfully- As per Gartner

What is Data Buddy: Knowledge Curation

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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 – Knowledge Curation*: is a generative AI-infused service. It helps

- businesses to streamline knowledge management by automation
- unlock enhanced knowledge quality that is accurate, up-to-date and relevant
- foster collaboration and innovation
- 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: Knowledge Curation Key Features

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Unleash Generative AI to manage documentation and improve code-to-documentation

01. Multiple programming language

- Handle wide range of languages
- Integration with relevant tools, environment to maintain functionality

02. Best Code Recommendation

- Provide the code with Best Practices
- E.g.: with proper error handling, Security and others.

03. Code Analysis

- Understand the meaning and context of code snippets
- Analyze structure, syntax, semantic

04. Test Case Generation

- Automatically generate test cases based on functions, inputs, outputs
- Cover potential edge cases

05. Natural Language Generation

- Generate human-readable documentation in natural language
- Appropriate terminology and phrasing

Data Buddy: Knowledge Curation Benefits

Data Buddy fuels knowledge management with accelerated documentation speed, enhanced test quality and reduced management cost

01. Time Savings

upto 60%

Automated documentation reduces manual effort in creating it from scratch

02. Improved Accuracy

~20%

Reduced risk of human error and understanding of development concept

03. Enhanced Consistency

20-30%

Consistent documentation improves understanding and collaboration

04. Reduced Costs and Risk

~35%

Maintenance cost, risk management due to vulnerabilities, improved testing quality

05. Boosted Productivity

30-40%

Due to streamlined processes, comprehensive documentation

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

Potential Use Cases



Quality Assurance

- Generate test cases and documentation for testing and quality assurance
- Documentation as per regulatory requirements or industry standards



Operational Efficiency






- Managing and sharing code repositories, documentation, and best practices
- Knowledge transfer between teams and projects.



Project Management

- Create documentation, such as requirements, specifications and tests
- Improve understanding and code maintainability

User Persona Based Use Case Exploration

| User Persona | Data Analyst  | Engineer  | Business Analyst  | Data Scientist  | Executives  |
|--------------------------|--|--|---|--|---|
| User Goal | <ul style="list-style-type: none"> Improve the quality and consistency of code and documents Ensure that software products meet the needs of users and stakeholders | <ul style="list-style-type: none"> Create comprehensive and accurate documentation for code Develop and execute effective test cases to ensure software quality | <ul style="list-style-type: none"> Understand business requirements and translate them into technical specifications Create high-quality technical documentation | <ul style="list-style-type: none"> Develop machine learning models for knowledge management Analyze the relevant patterns and relationships | <ul style="list-style-type: none"> Reduce maintenance and risk costs Enhance decision-making by having thorough documentations |
| Use Case Examples | <ul style="list-style-type: none"> Create data dictionaries automatically to document definitions, relationships, and usage Generate documentation for stakeholders to gather feedback | <ul style="list-style-type: none"> Automatic generation of business documents, technical documents, functional and non-functional test cases improving test coverage Identify dependencies between different parts of the code | <ul style="list-style-type: none"> Up-to-date documentation to improve communication and collaboration Use the tool to generate business requirement document automatically | <ul style="list-style-type: none"> Documentation to ensure alignment with business objectives Documentation for machine learning models, including input data, algorithms, and evaluation metrics. | <ul style="list-style-type: none"> Use documentation to track progress and identify potential risks Demonstrate value of software development efforts to stakeholders |

How we do it – 5 Day Plan

Zensar's structured assessment approach via Knowledge Curation Tool is executed with below steps

Day 1: Assess



Discovery & Need Assessment

- **Understand Current Processes:** Current methods for creating and managing documentation
- **Identify Pain Points:** Challenges or inefficiencies related to documentation.
- **Define Goals:** Clarify objectives such as improving efficiency, accuracy, or consistency

Day 2: Evaluate



Explain Knowledge Curation Tool

- **Module Demonstration**
- **Showcase Tool Features:** Ability to generate various types of documentation (business requirements, technical documentation, test cases).
- **Evaluate Alignment:** How well the tool aligns with the specific needs and goals.

Day 3: Review



Hands-on Exploration & Use Case Identification

- **Dive into Customer Data:** Try the tool with customer's code samples
- **Compatibility Assess:** With existing development tools and workflows used
- **Scalability Test:** Ability to handle large and complex codebases
- **Compliance:** With relevant customer rules

Day 4: Rationalize



Integration & Benefits Analysis

- **Cost-Benefit Analysis:** Potential cost savings and ROI of using the tool
- **Risk Assessment:** Assess potential risks and challenges during implementation
- **Change Management Planning:** Strategies for addressing organizational change and ensuring user adoption

Day 5: Next Steps



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 your development projects with Zensar's AI Model: Knowledge Curation Tool for Code-to-Documentation-to-test suggestion Tool

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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.

