

BRAINY BASKET

Seeking parties interested in licensing and commercialization of technology.

Technology Brief

Brainy Basket is designed with a modular and scalable architecture that accurately tracks inventory items irrespective of their placement or rearrangement. The system incorporates Artificial Intelligence-based analytics to study historical consumption patterns and predict future inventory requirements, enabling intelligent restocking decisions and optimized procurement planning. For applications involving perishable or regulated products, such as food items and pharmaceuticals, the system further supports expiry-date monitoring and timely notifications to minimize wastage and ensure compliance with inventory management requirements. Integration with voice assistants, e-commerce platforms, and enterprise inventory management systems facilitates seamless automation of procurement and inventory control processes. By providing automated inventory monitoring, predictive analytics, cloud-enabled accessibility, and intelligent replenishment mechanisms, Brainy Basket significantly enhances inventory accuracy, reduces operational costs, improves resource utilization, and supports the development of smart and connected inventory ecosystems suitable for domestic, retail, healthcare, and industrial applications.

Block Diagram



Salient Features

This modular inventory management system combines load sensors and NFC smart containers to deliver real-time tracking, automatic item identification, and cloud-based remote access for environments ranging from homes to industrial warehouses. By leveraging AI-driven predictive analytics, it automates low-stock alerts, tracks expiry dates, and integrates seamlessly with enterprise systems and e-commerce platforms to minimize waste and streamline procurement.

Technical Applications

- ✓ Commercial & Retail Operations
- ✓ Industrial & Enterprise Supply Chains
- ✓ Residential & Institutional Settings

Glimpse of the Technology



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TECHNOLOGY SECTOR

Electronics & Semiconductors



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TECHNOLOGY READINESS LEVEL

TRL 4

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