



A Larsen & Toubro
Group Company

LTM

Unlocking AI in Energy & Utilities

Bouquet of 60+ Success stories
powered by AI - ML - GenAI - Agentic AI





Enterprise Solutions

Powered by BlueVerse &
Custom AI Platforms



Domain Meets AI

Energizing Efficiencies,
Powering Possibilities



Innovation

AI Assisted Coding
Solutions



Agentic AI

Enabling Multi-Agent
Solutions



Reimagine Experience

Through Data, Design,
and AI



Core AI Ops

Operational
Excellence

Enterprise Solutions

Powered by BlueVerse™
and Custom AI Platforms

American Energy Company

Scale Enterprise AI with LTM BlueVerse™

Full-Scale Gen AI Platform Deployment Delivering Agentic AI Solutions Transforming Legal And it Operations

Challenges

- Fragmented, manual processes slow down operations and increase risk.
- Overloaded subject matter experts (SMEs) and compliance challenges.
- Legal teams face delays and complexity in interrogatory reviews.
- Existing tools lack automation and scalability for future growth.

Our Solution

- Deployed BlueVerse™ in the customer's Azure environment.
- Integrated BlueVerse™ live with internal business units to support day-to-day operations.
- Redesigned workflows into an integrated, AI-first operating model.
- Implemented custom LLMs with conversational memory for stronger contextual understanding.
- Automated high-volume IT support tasks & connected them to ServiceNow AgentNow, SharePoint, enterprise knowledge sources.



Tech Stack

BlueVerse platform on Azure | Snowflake Utility for automated deployment | Agentic AI solutions integrated enterprise systems

Outcome Delivered

60%

Boost in
persona
productivity
efficiency

80%

Reduction in
response cycle
time

40%

Improvement
in data
accuracy

Improved accuracy, defensibility, and regulatory compliance faster filings and smoother multi-team coordination

Established foundation
for scalable automation

Strategic AI roadmap
co-developed for
workflow intelligence

US-Based Fortune 500 Company

Modernizing Power Generation at Scale

Improving Efficiencies with Predictive Analytics and Automation



Challenges

- Legacy systems with data latency and limited scalability.
- Need for real-time, actionable insights and user-friendly explanations.
- Ensuring robust security while integrating with existing infrastructure.
- Enhancing forecasting accuracy and empowering field teams.
- Aligning with sustainability and regulatory goals.

Our Solution

- Designed and implemented next-gen, cloud-based enterprise AI platform.
- Leveraged advanced predictive analytics and GPT-based contextual narratives for operational insights.
- Ensured seamless integration with legacy systems, retaining robust security protocols.
- Adopted a user-centric design with iterative feedback & phased rollout.

Tech Stack

Frontend: ReactJS | **Backend:** Python, Azure OpenAI (LLM & Embedding models) AI Search (vector indexing/querying), Function App, Web App, Document Intelligence, Azure Speech Services | **Storage:** Azure Storage Accounts, SQL Server Azure Fabric, Cosmos DB | **DevOps:** Azure DevOps, Azure Repos, Azure Pipelines

Outcome Delivered

\$1Mn

in potential annual savings during proof-of-concept

15%

Improvement in resource allocation

25%

Cut in data processing time

20%

Reduction in forecasting errors

Leading American Power Generation Provider

AskIT-Transforming IT Support Experience

BlueVerse Foundry-powered agentic AI solution enabling self-service IT support, accelerating issue resolution, and transforming employee experience

Challenges

- Employees relied on multiple systems to access information and resolve routine IT issues.
- High volumes of repetitive support requests increased operational burden on IT teams.
- Fragmented knowledge sources resulted in inconsistent user experiences and slower resolution cycles.
- Limited self-service capabilities created continued dependency on manual support channels.

Our Solution

- Developed AskIT, a BlueVerse Foundry-powered agentic AI assistant for enterprise IT support.
- Unified knowledge articles, service catalogs, incident records, and IT documentation into a single AI-powered experience.
- Leveraged conversational AI, RAG, and workflow orchestration to deliver context-aware support and guided resolution.
- Enabled self-service troubleshooting, request management, incident tracking, and continuous learning through user interactions.



Tech Stack

Blueverse Foundry, Azure Open AI, RegIQ, GitHub, Chat Interface (Web / Domnet Widget)

Outcome Delivered

Enhanced employee self-service experience

35%
Reduction in repetitive IT support requests

50%
Faster issue resolution and response time improved

Simplified ticket creation journey

Improved utilization of enterprise knowledge

Real-time responses

Increased overall employee productivity

Major US Utility Enterprise

Optimizing Outcomes with Enterprise AI

A power generation leader's journey to enhanced efficiency, accuracy, and innovation



Challenges

- Challenges in extracting actionable insights from both structured and unstructured data sources (e.g., contracts, legal documents).
- Manual workflows led to increased effort, slower decision-making, and a higher risk of errors.
- Difficulty in ensuring enterprise-grade security, compliance, and seamless integration across business functions.

Our Solution

- Developed AskCal, an Azure-based AI intelligence framework, to automate workflows and improve decision-making using generative AI and advanced analytics.
- Enabled actionable insights and reporting by processing structured data and generating business-ready outputs.
- Implemented document intelligence to extract, categorize, and analyze multiple file formats, including contracts & legal documents.
- Automated compliance monitoring, fraud detection, and governance to strengthen regulatory adherence.
- Delivered enterprise-scale reliability, security, and governance with seamless integration across business functions.

Tech Stack

Cloud Platform: Microsoft Azure

Gen AI Ecosystem: Advanced generative AI for operational efficiency and smarter decision-making

Data Insights & Analytics: Processes structured data from Accord for actionable insights and reporting

Outcome Delivered

20%

Reduced forecasting errors

15%

Improved resource allocation

95%

Cut data processing time

95%

Minimized security vulnerabilities

Super Major Oil and Gas Company

PRISM – AI-Powered Application Portfolio Rationalization & Modernization

AI-driven early warning intelligence enables proactive maintenance, improves asset reliability, and reduces production losses

Challenges

- Fragmented application landscape created operational complexity and duplicate technology investments.
- Overlapping applications increased maintenance costs and inefficient resource allocation.
- Manual portfolio assessments made rationalization efforts slow, subjective, and difficult to scale.
- Limited visibility into dependencies, business value, and modernization readiness hindered decision-making.

Our Solution

- Developed PRISM, an AI-powered framework for enterprise-scale application portfolio assessment and modernization.
- Leveraged AI/ML and ServiceNow CMDB data to analyze application dependencies, usage patterns, and operational health.
- Used GitHub Copilot agents to perform code-level analysis and generate application intelligence.
- Automated capability mapping, portfolio assessments, and modernization recommendations.
- Enabled data-driven decisions for retention, modernization, consolidation, migration, and decommissioning initiatives.

Tech Stack

PRISM Framework | GitHub Copilot Agents | ServiceNow CMDB |
Azure DevOps | AI/ML Portfolio Analytics | Application Discovery
Intelligence | Enterprise Modernization Accelerators



Outcome Delivered

Estimated annual savings exceeding \$8 Mn through application rationalization, vendor consolidation, platform standardization, and accelerated cloud modernization.

Automated portfolio intelligence, significantly reducing manual assessment effort while improving decision quality and consistency.

Improved modernization planning through comprehensive visibility into application capabilities, dependencies, and technical health.

Enabled data-driven portfolio decisions using nine strategic evaluation dimensions aligned with enterprise modernization objectives.

Enhanced cost transparency by providing detailed insights into total cost of ownership, optimization opportunities, and modernization ROI.

Accelerated application consolidation initiatives, helping reduce technology sprawl and eliminate duplicate business capabilities.

Established an enterprise-scale modernization framework approved and validated for strategic transformation programs within a complex global energy environment.

GenAI-Powered Learning Intelligence & Decision Support Platform

Transforming enterprise learning data into actionable business intelligence, enabling faster decisions across upstream operations

Challenges

- Critical lessons learned and business-impact assessments were scattered across thousands of records.
- Existing systems provided information access but lacked contextual, decision-ready insights.
- Engineers and analysts spent considerable effort correlating data across multiple sources.
- Fragmented insights limited holistic decision-making across operational domains.

Our Solution

- Developed a GenAI-powered Learning Intelligence Platform to synthesize enterprise learning and business-impact data.
- Enabled natural language interaction with structured and unstructured knowledge repositories.
- Built an intelligent reasoning layer to generate actionable recommendations from lessons learned and operational outcomes.
- Leveraged Prompt Flow to deliver contextual, domain-aware responses beyond traditional search.
- Established a scalable, secure knowledge accelerator for operations, engineering, compliance, and workforce programs.

Tech Stack

Azure OpenAI | Prompt Flow | Enterprise GenAI Platform |
Conversational AI | Knowledge Intelligence Framework | CI/CD
Automation | GitHub Actions | Terraform | Cloud-Native Architecture



Outcome Delivered

Improved decision velocity by 30-35%, enabling faster issue resolution and accelerated learning adoption across operational teams.

Reduced manual analysis effort by 250-300 hours per month, eliminating time spent consolidating and correlating information from multiple knowledge sources.

Saved approximately 1.5-2 FTEs of effort, reducing dependency on SMEs for routine knowledge discovery and interpretation

Enhanced knowledge accessibility and reuse, accelerating onboarding, workforce development, and organizational learning.

Enabled multidimensional insight generation, providing contextual recommendations across cost, safety, quality, schedule, environmental, and operational performance dimensions.

Improved planning accuracy and decision quality through real-time access to enterprise knowledge and historical lessons learned.

Created a reusable GenAI accelerator, establishing a scalable foundation for future AI-powered learning and decision intelligence initiatives.

Strengthened enterprise GenAI adoption, demonstrating an enterprise-grade approach to knowledge synthesis, reasoning, and operational decision support.