Optimize Infrastructure with **Our Transformer Fault Diagnostics Solution**

CELEBAL TECHNOLOGIES

Presenting our Fault Diagnostics solution, a major step forward in electrical infrastructure maintenance.
This intelligent system precisely **detects and analyzes faults**, **reducing downtime** and **operational risk**. Traditional methods are often manual, delayed, and inaccurate, leading to asset failures, compliance issues, safety risks, and financial loss. Our solution integrates **Azure Machine Learning**, **Azure Kubernetes Service**, **Azure Blob Storage**, and **Azure Data Lake** for real-time fault identification. With **Azure Custom Vision**, **Segment Anything Model (SAM)**, and **OpenAI's CLIP (Contrastive Language-Image Pre-training)**, it ensures fast model training, pixel-level accuracy, and contextual understanding, adapting swiftly to new or damaged components using limited annotated input.

***Gartner** projects **global IT spending** in the power and utilities sector to reach **$249.1 billion in 2025**, a **10% increase** from **$231.2 billion in 2024**. This growth is expected to continue with a **10.3% CAGR**, reaching **$385.6 billion by 2029**.*

Key Features

- Predictive Maintenance
- Fault Detection Algorithms
- Remote Monitoring
- Real-Time Alerts
- Sensor Integration
- Precision Analysis

Core Benefits

- Data-Driven Insights
- Asset Management
- Early Fault Detection
- Optimized Resource Allocation

Impacts

2X	60%	5X	40%	4X
Minimized Downtime	Cost Efficient	Time Savvy	Improved Reliability	Enhanced Decision-Making

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