



A provider of environmental data assists cities in identifying dirty traffic signs, road damage, and illegal waste dumping using cameras installed on waste disposal vehicles. Challenges included varying image quality due to weather/daytime changes and insufficient GPS data as well as motion blur, white balance issues, and image noise complicate data accuracy. The need for real-time data processing and scalability further added to the complexity.



BENEFITS

- Improved customer satisfaction by providing better data quality
- Leveraged scalability of the cloud by migrating AI models and data collection from edge devices to Google Cloud
- Optimized resource usage by efficiently processing and streaming data to the cloud



- Cloud Run
- Cloud Storage
- Pub/Sub
- Cloud Run Functions
- Video Intelligence API





Legal departments in the automotive industry faced significant challenges in tracking and complying with frequent amendments to laws and regional regulations. The process was time-consumina and complex. difficulties in keeping up with the numerous legislative changes. A lack of real-time updates led to compliance risks and inefficiencies in legal workflows, potentially resulting in costly legal issues.



BENEFITS

- **Increased efficiency** by automating the monitoring and comparison of legal documents, reducing manual work
- **Improved accuracy** with real-time notifications, minimizing the risk of missing important legislative changes
- User-friendly workflow that eases the analysis of legal content and boosts productivity



- Vertex AI Platform
- CloudSOL
- Gemini
- **Cloud Run Functions**
- Cloud Run
- Firestore
- Cloud Storage
- Cloud Monitoring/Logging
- Compute Engine
- **GKE**





The inventory management system relied on an outdated stochastic model, leading to inefficiencies in forecasting order demands from dealers and sub-dealers. This resulted in suboptimal stock levels, either causing excess inventory or shortages. Additionally, the existing system struggled to account for the varying needs of different product groups and seasonal effects, complicating the inventory storage process.



BENEFITS

- Improved demand forecasts through advanced machine learning models, leading to optimal stock levels
- Enhanced operational efficiency by modernizing the inventory management process and minimizing excess or shortages
- Streamlined data management with centralized storage and processing, improving data accessibility and handling



GOOGLE CLOUD SOLUTIONS

- Vertex AI Platform
- Vertex Al Model Garden
- Vertex AI AutoML Tabular
- Vertex AI Endpoints
- Gemini
- Cloud Run
- Cloud Storage
- BigQuery
- BigQuery ML
- Timeseries Insights API

T Systems Google Cloud





Receiving job advertisements in unstructured formats from various channels posed significant difficulties for the agency's IT systems. Structuring these job ads efficiently was challenging, requiring automatic transformation of unstructured texts into structured data using several attributes for seamless processing.



BENEFITS

- Increased Google know-how with Vertex AI LLM for data extraction
- Improved efficiency via automation, aiming to save more than 50% of manual work
- Handling of handle large volumes of data without infrastructure limitations possible with Google Cloud's capability & scalability



- Vertex AI Platform
- Vertex Al Model Garden
- Vertex Al Workbench
- Document Al
- Gemini
- Google Cloud Storage





Managing a growing database of reports from international development projects was increasingly complex. Users struggled to efficiently search for specific information, such as lessons learned, across different documents. This resulted in time-consuming manual research, burdening users and reducing overall productivity. The challenge was to streamline this process, reduce search time, and provide accurate, easily accessible information.



BENEFITS

- User-friendly search in a conversational manner
- Efficient information retrieval with accurate insights from multiple documents
- Rapid implementation leveraging Google Cloud services and resources
- Expert consultancy for AI development and best practices



- Vertex AI Platform
- Vertex Al Search
- Gemini
- DocumentAl