



Enhancing Real Estate & Construction Management with AI-Driven Insights

Client

A leading real estate and construction technology provider focused on digital transformation. The client specializes in delivering data-driven solutions to streamline real estate investments, project execution, and construction workflows.

Business Need

Their primary goal was to integrate AI-driven insights to enhance efficiency, reduce risk, and optimize decision-making across multiple phases of real estate development and construction management.

The client required a comprehensive technology solution to:

- Unify real-time and historical data from construction tools.
- Use AI-driven recommendations for investment and project execution.
- Assess market trends, land valuation, and risks.
- Address challenges like weather disruptions and budget overruns.
- Enable seamless communication among stakeholders.

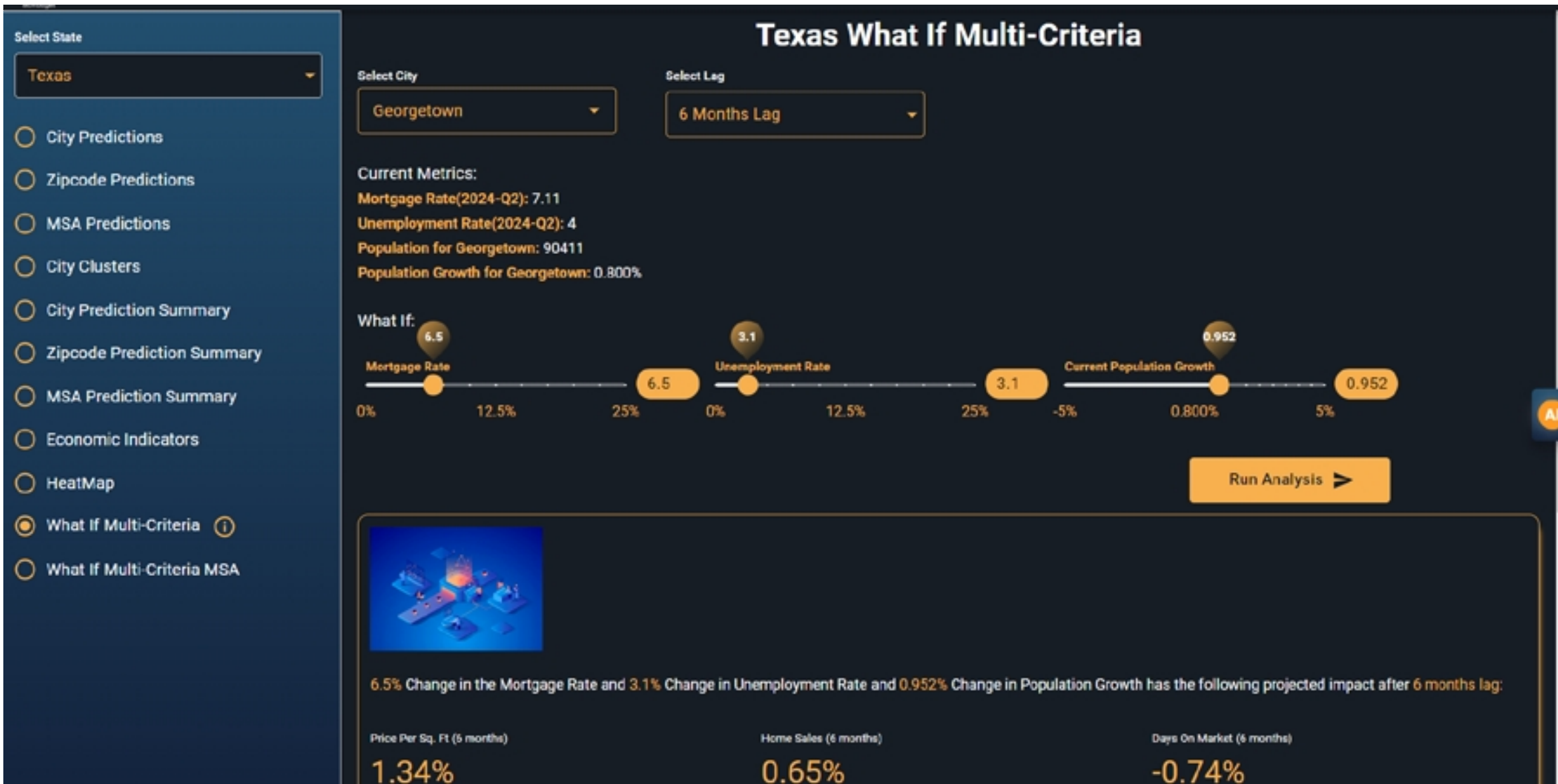
Challenges

- Disaggregated data made decision-making difficult.
- Reactive Issue Management lead to budget overruns due to a lack of predictive risk assessment.
- Lack of a unified dashboard for project tracking
- Manual data processing and analysis reduced efficiency.
- Risk mitigation needed for addressing disruptions and shortages.
- Lack of historical learning integration for optimizing future operations.

Solution

To address these challenges, Innominds helped the client with an advanced AI-based platform, deployed with the following capabilities:

- **Extended Engineering Support:** Expertise across DevOps, data science, UI, and quality engineering.
- **Predictive Real Estate Intelligence:** AI-driven analytics for land value assessment and investment insights.

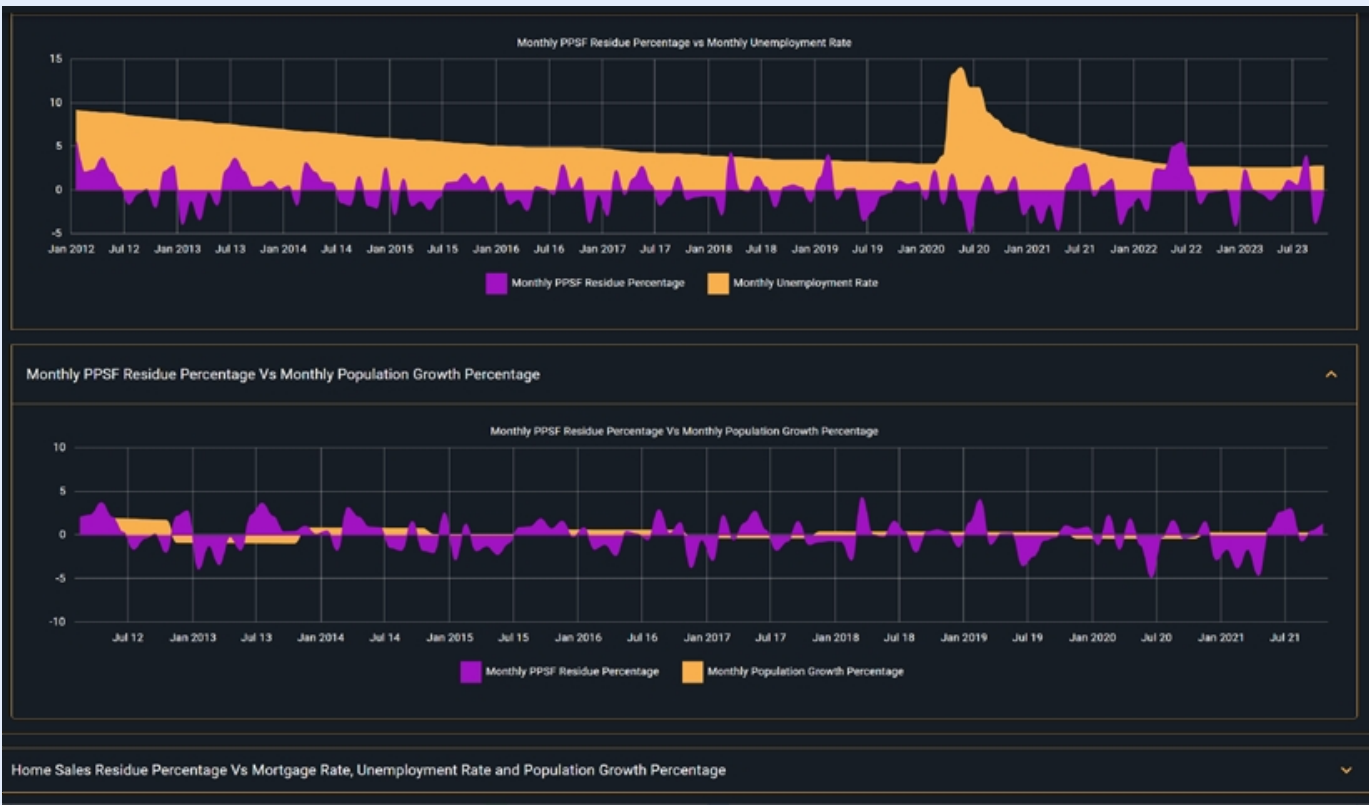


- **Data Aggregation & Visualization:** Unified multiple construction tools for real-time insights.



- **Automated Risk & Quality Management:** AI detected risks early and suggested alternative solutions.
- **Optimized Schedule Management:** AI-driven recommendations improved timelines and workforce allocation.
- **Lessons Learned Module:** Captured past insights to enhance future decision-making.

Value Delivered



By leveraging AI-driven insights, predictive maintenance, and automation, the client accelerated execution, reduced risks, and gained a competitive edge.

- **50%** Faster decisions
- **40%** Fewer project delays
- Optimized high-value investments
- Unified platform for seamless collaboration
- Early risk detection and mitigation
- Continuous efficiency improvements

Tools & Technologies Used

- **Cloud & Infrastructure:** AWS, Kubernetes (K8S), Docker, Terraform
- **AI/ML & Data Processing:** OpenAI, PyTorch, TensorFlow, Opensearch
- **Data Management & Integration:** PostgreSQL, Kafka, Debezium, Hasura
- **Development & UI Technologies:** React, React Native, Node.js, Three.js, Java, Spring Boot, Python (Flask)
- **Construction-Specific Tools:** BIM 360, Revit, ODA – IFC
- **Real Estate Intelligence (REI):** AI-powered analytics for land

Transform your real estate and construction projects with AI.
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