VELTRIS
INNOVATE | ACCELERATE | TRANSFORM

DENTAL DATA MODERNIZATION & AI READINESS

AI-Ready Data Fabric for a Multi-Unit Dental Network

Challenge

A leading multi-unit dental organization operated across a fragmented landscape of Practice Management Systems (PMS), each with proprietary schemas and inconsistent data formats. While appointment data was captured digitally, provider schedules were managed manually in offline Excel files — making enterprise-wide visibility into provider utilization, patient reactivation opportunities, and practice performance impossible to track at scale.
The organization needed a unified data foundation to power AI-driven growth without disrupting the heterogeneous clinic environment.

Approach

Designed a three-pillar data fabric unifying Providers, Patients, and Practices into a single normalized enterprise schema across all PMS sources

Built a Modernization Engine with ETL/ELT pipelines and a Semantic Layer to reconcile structured appointment data with unstructured Excel-based schedule data inside a Cloud Data Warehouse

Deployed Snowflake Intelligence and AI Agents atop the Data Lakehouse to scan unified datasets, detect under-utilized provider capacity, and generate targeted growth recommendations

Delivered the RM Toolkit, a mobile-optimized Streamlit interface giving Relationship Managers real-time Practice Snapshots and AI-driven recommendations during field visits

Outcomes Delivered

Maximized clinical capacity and provider productivity through unified visibility into utilization gaps across the practice network

Accelerated revenue growth through proactive patient reactivation powered by AI-driven recommendations delivered directly to field teams

Established a single, enterprise-wide source of truth enabling faster, data-driven decisions from head office to the practice floor

Closing

Veltris combined deep dental domain expertise, modern data engineering, and AI agent orchestration to transform a fragmented multi-PMS environment into a scalable, AI-ready data fabric powering measurable growth.

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