



Data management & analytics

Behavioral Health Provider

- Built a scalable enterprise data warehouse on the Azure cloud platform to accommodate data from multiple Electronic Health Record (EHR), payroll & other administrative systems
- Developed a robust reporting suite to unlock visibility in key practice operations by tracking visits and appointments, provider productivity and billable units, along with a deep dive into key interventional areas to monitor Spravato/ Ketamine and TMS chair utilization

Setting up cloud-based data warehouse and reporting suite

Situation

- Due to inadequate data architecture for integrating information from multiple third-party systems, the client lacked visibility into their organization's clinics' performance, resulting in an inability to accurately track essential business metrics in a timely manner
- Partnered with the client to set up an Azure-based Enterprise Datawarehouse and develop data models and automated Power BI dashboards that are refreshed on daily & weekly basis

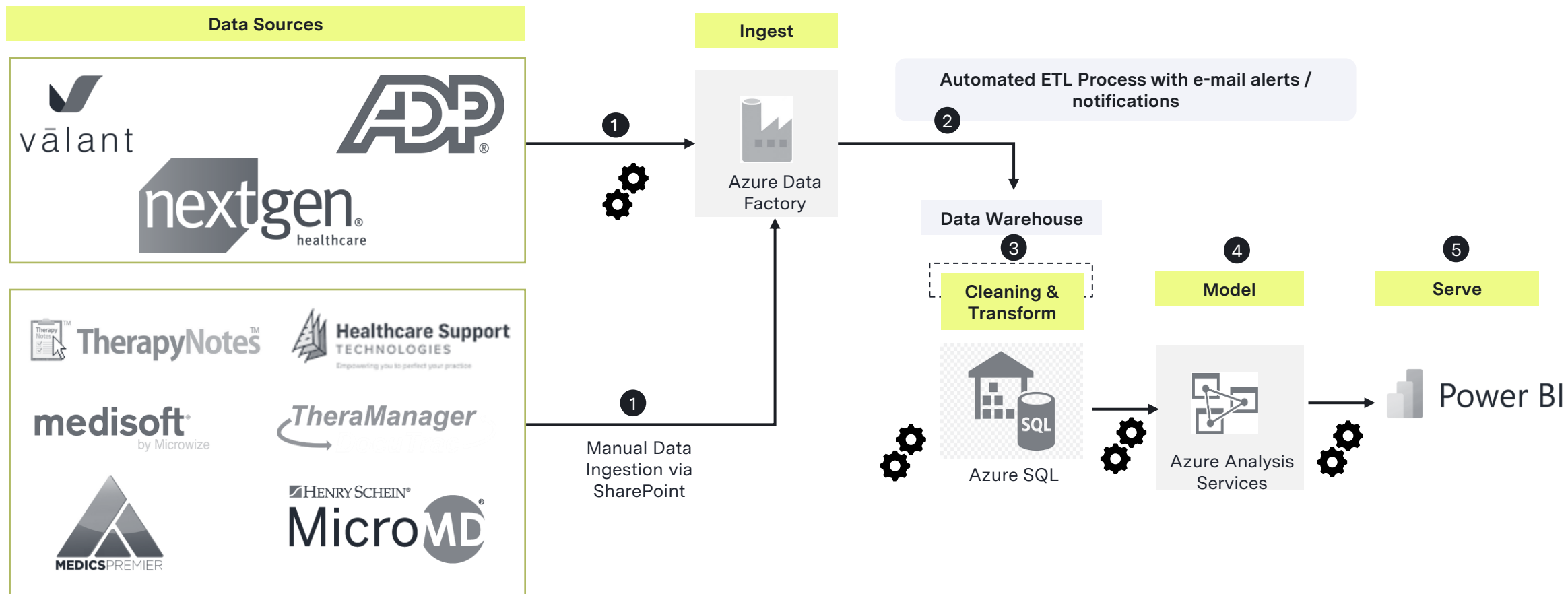
Accordion Value Add

- Built an Enterprise Datawarehouse (on Microsoft Azure platform) connecting different EHR and Payroll systems (Valant, TherapyNotes, ADP, HST, TheraManager, MediSoft, MicroMD, ADS and NextGen) that acts a single source of truth for all reporting
- Implemented Row Level Security (RLS) to restrict the access to the Clinic Directors/Regional Managers and securely share the BI dashboards
- Incorporated automated data validation and reconciliation rules at every step across the entire ETL process to ensure accuracy and consistency in data
- Built data models on Azure Analysis Services with all key metrics and designed robust self-serve dashboards on Power BI with scheduled daily / weekly refresh of data to provide insights into clinics' performance

Impact

- Enabled the availability of clean and validated data off the shelf across the company on near real time basis with an Enterprise Datawarehouse
- Automated Power BI dashboards provided visibility for the Senior Leadership team into the key performance metrics related to tracking in-flow of patients and tying them up with availability of providers, performance of key interventional lines of business related to Spravato, Ketamine and TMS chairs
- Automated the reporting of key patient healthcare access and bonus calculations
- Automating report generation saved ~40 person-hours per week by eliminating manual tasks such as data gathering, cleaning, and Excel report creation

Datawarehouse architecture design



- 1** Built an **Enterprise Datawarehouse** connecting different data sources through data pipelines and transformed raw data as per business requirements
- 2** Developed an automated **ETL** process to load the data into **data warehouse** daily and configured e-mail alerts/notifications to monitor the overall ETL process
- 3** Incorporated **automated data validation** and **reconciliation rules** at every step across the entire ETL process to ensure accuracy and consistency in data
- 4** Created a **Tabular data model** on **Azure Analysis services** and **developed ready-to-serve data marts for analytical and reporting purposes**
- 5** Developed **Power BI dashboards** on top of the Analysis services to monitor and track business performance

Appointments summary for operations



Provider summary



Clinical director dashboard

