

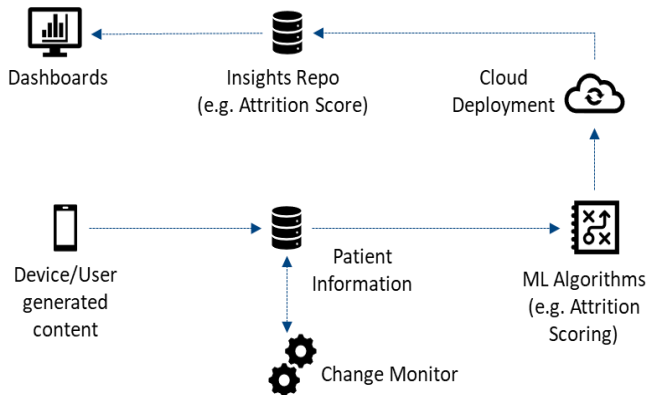
Case Study: MLOps for Digital Services

Client Requirements

Client is a leading medical technology company. Client provided consumer devices for managing diabetes and wanted to provide personalized insights to patients and caregivers.

The client intends to develop an end-to-end MLOps framework. MLOps solution will enable operationalizing customer attrition model for insulin pumps in the short term while building the foundation for future regulatory compliant MLOps platform and addition of new algorithms in the long term.

Client partnered with CitiusTech to establish an enterprise MLOps framework to operationalize AI ML driven digital services for their devices.



Solution Schematic

CitiusTech Services:

CitiusTech put together an MLOps core team to design, create and demonstrate the architecture for model development, deployment, monitoring and research operations

- Reviewed the current Model development pipeline in Pre-Production and Production environment and refined to cater to multiple models
- Provided unified dashboard to review and track model and infrastructure performance using predefined, mutually identified performance metrics
- Implemented strategy in staging and production to enable automated re-training of models
- Reviewed the existing framework for CI/CD integration and built an automated deployment pipeline
- Standardized and operationalized customer research function to reduce inefficiencies and scale across models

Value Delivered:

- CitiusTech solution helped achieve reduced deployment time for the existing data science models
- The solution delivered also helped achieve standardization of the MLOps process with minimal dependencies
- Provided model monitoring framework for tracking drift and performance and managing models for driving business outcomes