

# Smart Healthcare

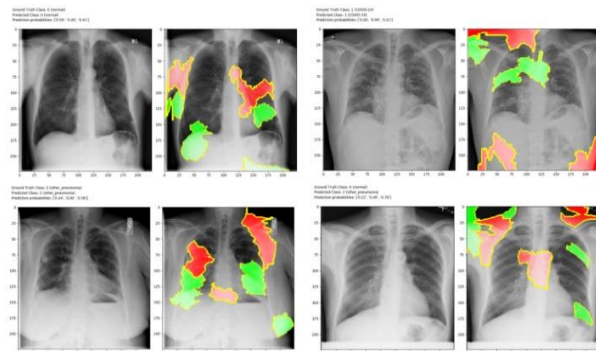
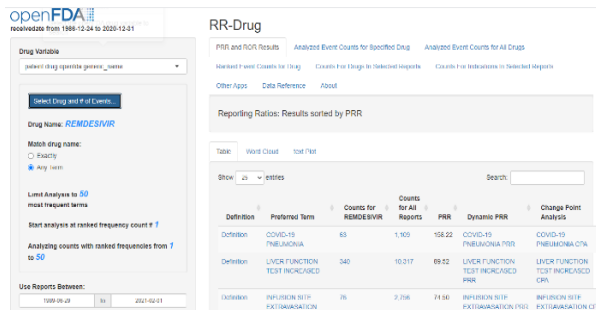
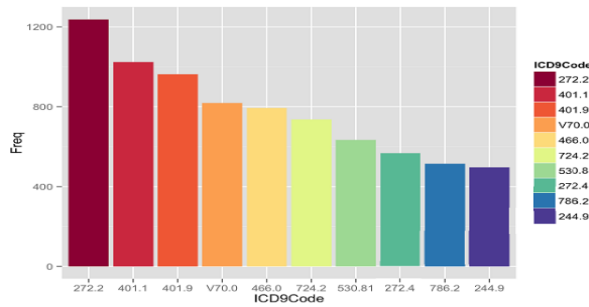


## KEY ENGAGEMENTS

- **Gene Data Analytics & Risk Profiling** - Designed and customized the combined risk models and profiles from EMR, Genomics and Medical Images
- **Data Mining on Healthcare Research Datasets** - Designed and deployed a NPL platform for medical research datasets
- **Predicting Adverse Events from clinical trials** - Designed and developed Predicted Models on CTs for ADRs
- **Running Drug Discovery Process on Blockchain** - Setting up an AI enabled cloud platform in drug discovery process
- **Medical Images Data Classification and Prediction** - Designed and developed deep learning predicted models for Medical Images

## BUSINESS IMPACT

- ✓ Improves health risk identification from big data analytical lakes
- ✓ Enhances real-time analytics at the functional/departmental level of a healthcare provider
- ✓ Provides a unified view of health data from multiple sources (EMR, medical images, genes, health insurance claims, diagnosis, and treatment reports - structured, semi-structured and unstructured)
- ✓ Improves hospital monitoring from real-time digital dashboards
- ✓ Monitors and predicts medical devices integrity across the value chain



## EMR Data Analytics (EDA)

Solution to address analytics on top of your Electronic Medical Records (EMR) system with BI on cloud.

- Setting up EMR analytics on cloud as per HIPAA compliance
- Predict outcomes ranging from mortality rates to re-admissions, length of stay (LoS) and diagnoses
- Predict patients at high risk of postoperative complications. Predictor variables for the models included comorbidities, outpatient medications, and demographics

## Prediction of Adverse Drug Reactions (ADR) from Clinical Trials

Solution to help ADR Prediction Models on past clinical datasets; on current clinical datasets (to make CROs/Drug Manufacturer's to be proactively monitor for ADRs) for trials currently in phases 1/2/3.

- Generate ADR Prediction Scores for Reliability
- Generate Patient Tailored ADR Profiles
- Generate ADR from Drug Structs and Safety Reports
- Generate ADR Data Mining Models

## Deep Insights Analyzer (DIA) for Medical Images

Solution to help detecting anomalies in medical images using Neural Networks models

- Deep Learning Workbench for Medical Imaging Analytics
- Predict Outliers/ Anomalies (Generate Risk Scores)
- Re-train the System (from Radiologists for Errors)
- Re-deploy training models (update the Model Registry)

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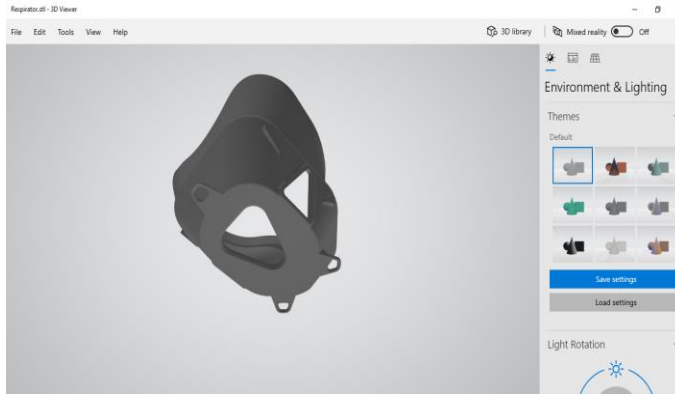
## KEY ACCELERATORS

- ✓ Genome Risk Modelling
- ✓ Healthcare Data Monitoring
- ✓ Patient Experience Portals
- ✓ Clinical Data Management
- ✓ Clinical Trials & Drug Discovery
- ✓ Real-time Hospital Operational Dashboards
- ✓ Fraud Detection in Insurance Claims
- ✓ 3D Prints for Medical Devices

## DESIGN LED TRANSFORMATION

- “Systems level thinking” that is critical in delivering business performance metrics
- Specialists have experiential knowledge in multiple technology transformations in specific domains
- Integrated solutions leveraging engineering and advances in IT - led by design thinking
- Domain expertise in successfully applying these emerging technologies to solve business problems
- Deliver high value-added, fast, and cost-effective projects

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## Engagement Model

- On demand services partner - OPEX mode of technology transformation
- Lower TCO by adopting Public Cloud, Open Source, Rapid Application Development (RAD)
- Act as customer’s extended technical R&D labs
- Partnership with SAP, IBM, Microsoft, Google & AWS

<p>Consulting+ Technology solutions team from Fortune 500 and Tier I IT/ITES Firms</p>	<p>Members from consulting, technology and operations provide an <b>all-inclusive perspective at an engagement level</b></p>	<p><b>Design thinking and Change Management</b> at the core of any proposed solution</p>	<p>Leveraging <b>low-code/no-code platforms for MVPs</b> as part of our engagements</p>
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## Consulting Focus Areas

- **Strategic Planning** - Design use-cases, technical and domain related market research, open innovation, agile R&D
- **Operations Management** - Drive business transformation, program management, metrics management/business performance
- **Technology Transformation** - Develop domain solutions prototyping, applied analytics, remote monitoring, risk management in select verticals.
- **Digital Platform Alliances** - Discover industry alignment to post covid-19 era, sustainability goals and industry 4.0+ demands by building a responsive digital ecosystem.

