

Covid19 Analytics Platform (CAP)

24x7, Integrated data2insights (d2i) platform



Agenda

- Covid19 Analytics Platform (CAP)
 - Overview, Stack and Benefits
- CAP's Applicability
 - > Typical Use Cases
- CAP's Engagement Model
 - > Execution Model, Enterprise Scale





Covid19 Analytics Platform (CAP) - Overview

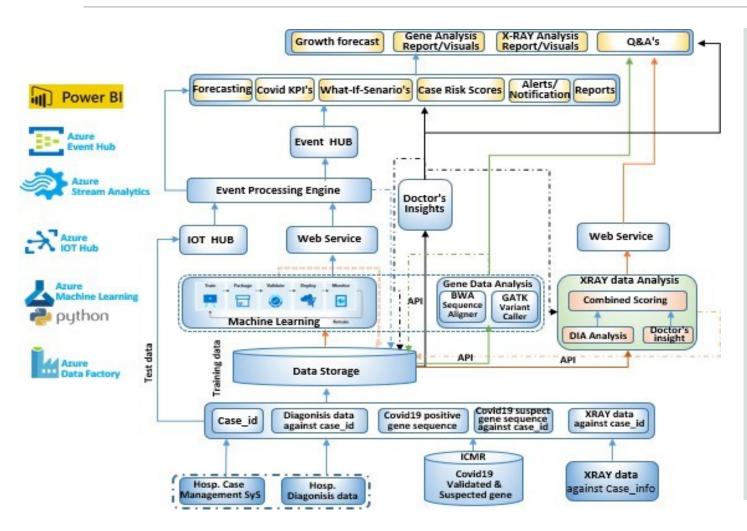
- 1. CAP is an on-demand analytics platform that can be used by research organizations, public healthcare institutes, students of medical universities to access analytical views, trained models & what-If/ business scenarios dashboards on covid19 datasets
- 2. CAP's objective is to accelerate forecasting models for the capacity planning/forecasting of hospitals, disease outbreak models, target infections, etc. at a district level
- Risk Analytics is embedded as part of each module

 Case Risk Scoring, Training Models Repository, KPI
 Reports, Performance Benchmarking, Outbreak Models,
 Healthcare Capacity Forecasting, etc.





CAP - Running Stack/Architecture on MS Azure Cloud

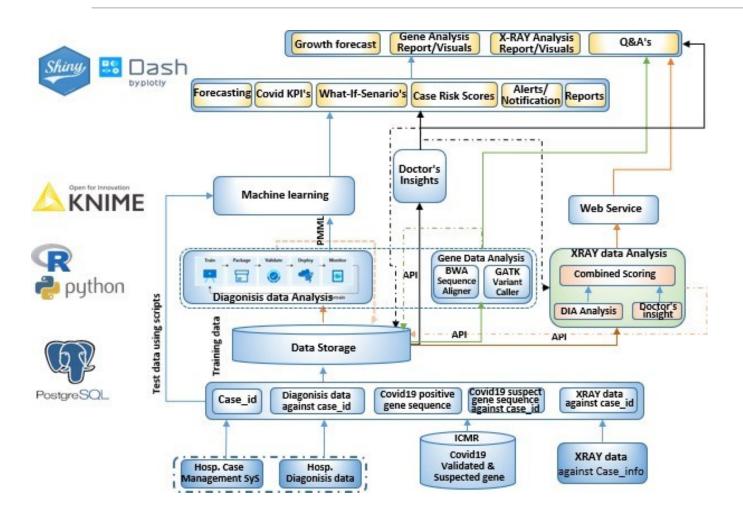


Integrated API Platform for

- a) Generating "Case Risk Scores" from Diagnosis, Genomics as well as X-Ray DICOM Images
- b) Sharing a repository of trained models derived from Diagnosis, Genomics as well as X-Ray DICOM Images
- c) Developing Covid19 KPIs from a healthcare operations perspective (average cost/inpatient, average cost/outpatient, Ventilator/ICU Beds Utilization %, LOS, etc.)
- d) Benchmarking District-wise performance based on Recovery Rates, LOS, Re-admissions, Error Rates in Tests, Test Converge, etc.
- e) Generating Disease Outbreak Models, Hospital Capacity Growth, Target Infection Rates, etc. at a district level



CAP - Running Stack/Architecture on Open Source



Integrated API Platform for

- a) Generating "Case Risk Scores" from Diagnosis, Genomics as well as X-Ray DICOM Images
- b) Sharing a repository of trained models derived from Diagnosis, Genomics as well as X-Ray DICOM Images
- c) Developing Covid19 KPIs from a healthcare operations perspective (average cost/inpatient, average cost/outpatient, Ventilator/ICU Beds Utilization %, LOS, etc.)
- d) Benchmarking District-wise performance based on Recovery Rates, LOS, Re-admissions, Error Rates in Tests, Test Converge, etc.
- e) Generating Disease Outbreak Models, Hospital Capacity Growth, Target Infection Rates, etc. at a district level





CAP - Benefits

Plug-in to any Healthcare Scheme like PM-JAY

Easily detect the risk scores of Covid19 admissions/claims made in PM-JAY program

1

Models + Analytical Views customized as per Indian scenarios

We have already customized 20+ analytical models related to disease spread, hospital capacity impact, infection rates, etc.

API based Solution with an OPEX delivery& commercial approach

Turnkey management from Case Repository to Analytical Models

3





CAP - Applicability/Key Use Cases



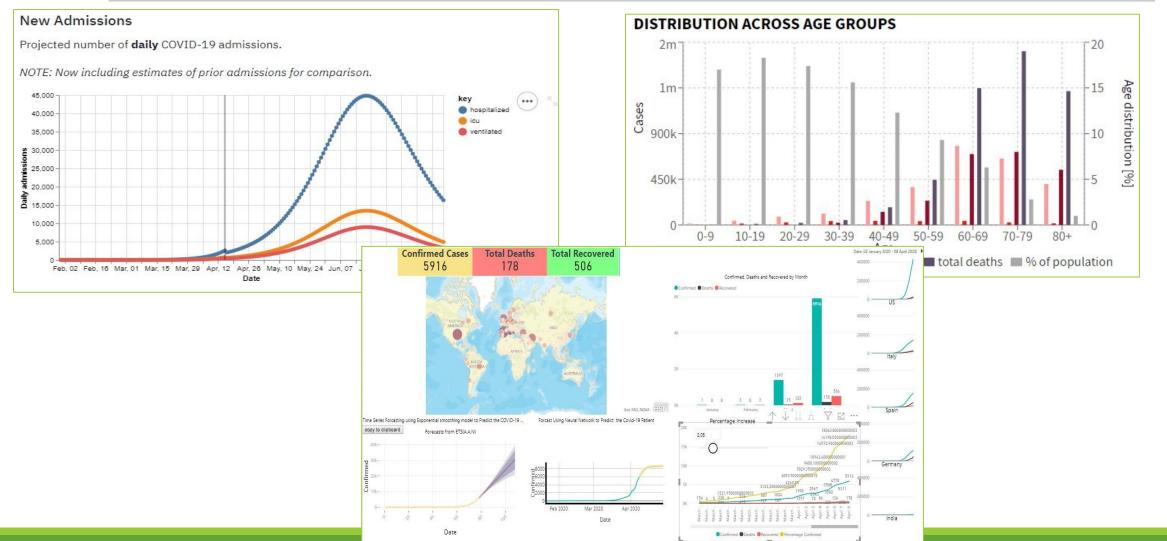
- X-Ray Images
- Diagnosis/ EMR Data
- Genomics Data

- ✓ Drug Discovery & Genome Sequencing Al/ML on Genome data to build tests, find drugs and vaccines
- ✓ Medical Imaging AI/Deep Learning has proven accuracy to detect patterns from Images
- ✓ Forecasting AI/ML to forecast COVID19 cases, Hospitals capacity levels, Medical Devices inventory levels, etc. at districts level
- ✓ **Data Mining -** Al/Data Mining to analyze research reports, global data sets, online reports and news around the world to predict critical and anomaly events.
- ✓ Healthcare Benchmarking Al/ML based Models + Analytical Views customized as per Indian datasets to periodically evaluate the healthcare readiness index at district levels
- ✓ Helps to setup the solution on cloud/on-premise for public healthcare firms in ~ 4-6 working weeks
- ✓ All models/analytical views/reports can be consumed in form of APIs
- ✓ Easily scales up for enterprise adoption by using the industry best practices across major markets





CAP - Applicability/Point Solutions





CAP - Execution Model

Typical Pilot/Project Constructs for a Public Healthcare Service Provider

Offsite and On Cloud Management(100%)

Complete Solution Design to Deployment

To be managed by Greenojo

> 100% on cloud project delivery

➤ Leveraging MS Azure Cloud

➤ Pilot/Project to include FAT/UAT tests

On-demand Analytics
Platform with Interactive
Dashboards

> 4-6 working weeks for a functional Pilot at any Healthcare Service Provider

Post the contract signoff with a service provider

Execution directed by Analytics Platform practitioners

Expertise with enterprise Analytics platforms and Models lifecycles





CAP - Enterprise Scale of Adoption

CAP can be easily migrated for an enterprise wide covid19 analytics apps focusing on AI/ML/DL models

Enterprise scale of CAP based productivity apps Re-use ready accelerators from CAP solution components Accelerators in form of Models, Codebases, Al Templates, Workflows, Dashboards, etc. can be consumed as independent modules

Models, Views and Dashboards available as APIs

Covid19 Analytics Platform Flexibility to Integrate with any Enterprise Portal

extended and integrated with portal of any public healthcare service provider

CAP experts' team to engage who have worked with onpremise as well as cloud deployments Core Team to engage who bring experience and learnings Merge
learnings
from similar
Analytics
Platforms in
other
verticals

Leverage our learnings from multiple Analytics Platform projects







Thank You

Greenojo provides Automation, Analytics and Al solutions to enterprise customers

For RFPs, Solutions and Sales/Partner enquiries, connect us at - sales@greenojo.com