

# CLINICAL TRIAL SITE PERFORMANCE & CAPACITY PREDICTION



**Site Selection Strategy**  
Setting trial



**Drives Participant Adherence**  
By reducing delays



**Site Feasibility Checks**  
No. & location of eligible candidates



**Lower Trial Cost**  
Faster & improved recruitment quality

## The Client

US based 'clinical trials' research facilitator

## Industry

Pharma

## Overview

Clinical trial processes are slow, expensive (\$3.7 - \$12 bn per new drug) and have low rate of success (roughly 1 in 500 sourced get approved). In order to cut down the drug development cost our client seeks to speed up the evaluation and selecting a clinical trial sites.

## Business Challenge

A clinical trial solutions provider for the life sciences industry, desired to develop a multi-site capacity plan to help monitor and future-proof its life science clinical trial services.

## Our Approach:

- Using advanced ML algorithms to compute the following:
- Statistical techniques: discover patterns from patient's database.
  - Performance scoring model: for all the facilities in the study.
  - Optimization engine: plan patient count across facilities.
  - Prediction: Assist in building a healthy pipeline for patients

## Outcomes

- ✓ A pipeline of closer match of patients to trial requirements.
- ✓ Identified the right site, based on site recruitment patterns.
- ✓ Optimization engine generated the estimated optimal releases across the given facilities for a selected study.
- ✓ Reduction in cost of operation to full fill trial demands.
- ✓ Reduction in loss with better compliant patients.