

AlayaLabs, AlayaCare's R&D department, is leveraging Artificial Intelligence (AI), optimisation and machine learning technologies to help home and community care organisations deliver better consumer outcomes and improved employee experiences.

AlayaLabs' approach includes applied research to improve the performance of our product, business intelligence delivered as services, and fundamental research to grow our clients' businesses:



Products

Delivering platform enhancements that optimise key product functions. AlayaCare client, VHA Home HealthCare (VHA), cited that home care workers can travel up to 4 hours to complete 8 hours of care delivery. AlayaLabs machine learning capabilities streamline travel times and optimises routing to improve travel costs and incorporates mapping for better staffing and client coordination. On average, they have realised up to 30 per cent reduction in travel time.



Services

Providing organisations with dashboards and actionable business insights. According to the 2019 Home Care Benchmarking Study, by market research and education firm Home Care Pulse, the median caregiver turnover reached an all-time high of 82 per cent. AlayaLabs is working on churn prediction and hiring optimisation tools to help all customers decrease caregiver turnover rates.



Research

Continuously investing in R&D for future products and services and collaborating with universities and professors to access to state-ofthe-art methods. Opportunities for research include improvements to patient risk score model, quality of visit predictor, voice to text vitals, remote care monitoring devices and shift offer / vacant shift optimisation.





Better Technology, Better Outcomes. alayacare.com | sales@alayacare.com



\$14 million

in R&D to provide you with a truly future-proof home and community care technology



Machine Learning to Harness your Data

Capturing clinical and event data is tremendously useful to monitor clients. With Machine Learning, we can augment that task and the outcomes by analysing data and predicting events.



Reduced Cost Through Optimisation

Streamlining travel time, maximizing resources and minimizing waste are only a few of the benefits tackled by incorporating optimisation in the day-to-day back office coordination and scheduling.



Rich Insightful Long Term Planning

Tackling data and patterns in bulk provides organisations with the ability to plan staffing, services and even clinics to match outcomes, needs and trends.

"We're building a bridge between what our clients need and what science can deliver,

we can improve business efficiency, while addressing issues that have a major impact on organizations. Importantly, we can also leverage machine learning to optimize care planning and suggest pathways that may lead to a heightened quality of care."

-- Naomi Goldapple, Head of AlayaLabs

AlayaLabs Team



Naomi Goldapple

Head of AlayaLabs

Naomi's current challenge as Head of AlayaLabs is to support AlayaCare's innovation strategy through applied research in machine learning and optimization applications. Naomi has spent the last few years leveraging and exploiting new technologies to build and commercialize products that solve real business problems.

Prior, Naomi was the VP Business Development at Nexalogy, responsible for commercialising the suite of products, forging channel partnerships and growing the sales. Naomi's unique experience combines both start-up entrepreneur and seasoned IBM technology and business consultant.



Simon Maxwell-Stewart Lead Data Scientist

Simon Maxwell-Stewart is the Lead Data Scientist at AlayaCare. AlayaCare looks to deliver the next disruptive solution for the industry by combining remote patient monitoring, clinical documentation and back office software supported by machine learning and optimisation.

Simon's background was in Physics before moving over to machine learning 5 years ago. In that time he has lead multiple data science teams, deployed two ML models for a major network in the AdTech industry, and developed a new technique for the airline industry combining Optimisation Research and Graph Neural Networks. Simon is an inventor with one registered patent and is striving for his next in the home healthcare industry.



Better Technology, Better Outcomes. alayacare.com | sales@alayacare.com