



TITLE (20 words maximum):

Predictive Learning Analytics: changing student academic outcomes in real-time by leveraging predictive machine learning

ABSTRACT CONTENT (300 words)

Siloes within Higher Ed institutions can make provisioning of holistic student support very challenging. Furthermore, traditional business intelligence approaches to learning analytics tend to provide insights that have a time lag which makes planning for interventions that can be implemented in the current term/semester difficult. CQUniversity developed SUCCESS a unique predictive learning analytics platform accessible to teaching and support services staff. This approach reduces the inconsistencies between 'self-defined' data sets and gives all staff who have a stake in student success the ability to confidently act on critical data about students and engage collaboratively and at scale when supporting them. SUCCESS pulls in data from all relevant institutional systems in real time which allows teaching and support staff to enact just-in-time support to students. SUCCESS also tracks student data through the term/semester allowing staff to identify patterns and trends for cohorts as they are going through their educational journey week by week. Unlike other business intelligence tools, SUCCESS provides a single solution to identify students at risk, and then seamlessly create a directly targeted intervention. SUCCESS is not inbuilt into a specific LMS or student management system but can consume data from any such platform. Similarly, it is not locked into a single and often simplistic predictive model found in off-the-shelf solutions making it highly scalable and transferrable to other organisational contexts. In this presentation you will see how data science and machine learning can enable data intensive collaborative platforms where academic and support staff can be brought to intervene in sync and influence academic outcomes in real-time.