Extracting Big Value from Big Data in Unstructured Content

Challenge:

There are more resources and information available to students than ever before. The inundation of resources and emerging understanding of personal differences in learning behaviors reduces tolerance for traditional classroom activities, teaching schedules, and traditional presentation of learning materials. Additionally, students are concerned with utilizing resources that are organized or presented in a fashion that reduces inefficiencies and helps them to quickly target specific areas of study. If students are not able to find the right resource or information at the right time, there is an increased likelihood that students would seek information outside of university curated sources or program learning events.

The rise and rapid changes in education technology have increased effectiveness of teaching and provided interesting tools for learners dedicated to specific outcomes. As such, education institutions amass technologies that serve their individual purpose well, but do not contribute to painting a more holistic picture of educational efforts and their effectiveness in aggregate on student competency based performance.

Objective:

Identify how Artificial Intelligence and Machine Learning can be leveraged to unify geographically and structurally disparate data to:

- Customize and facilitate discovery and delivery of instructional resources
- Present a holistic view of curriculum and presentation of topics and materials across academic years, course, and discipline
- Understand and automatically align information to objectives based outcomes and other ontologies
- Paint a clear picture of student performance on objective based outcomes and provide a roadmap for individual student improvement and program improvement

Results:

Curriculum Intelligent Agent™

Designed to bring the user the right resource at the right moment.

- Unification of 3+ data sources in one result
- Parsing on slide page level to get to exact slide of topic coverage
- Link to lecture capture
- Machine auto-tagging of relevant contextual information (USMLE, LCOM Hot Topic)

Curriculum Inventory Export

Leverage your content and allow iseek to automatically map your curricular information to AAMC or AAOC Standards

Analytics Intelligent Agent™

Turns your unstructured information into actionable, reportable insights

Conclusion:

Leveraging the power of Artificial Intelligence and Machine Learning, schools are able to paint a more cohesive picture of content coverage and verify success of learning initiatives and activities. Across educational environments, AI is becoming a need to have in creating efficient learning, customized learning, and evidence based learning solutions that also provide necessary insights to success of didactic and interactive teaching methods and programs. More than 50,000 UGME students and countless faculty have engaged with this automated system shifting the medical education paradigm.