## The Capacity Building Canvas Designed for: Working with A.I.

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Behaviors Selective implementation of automation technology / A.I. "Global" optimums through the use of automation technology / A.I.	Capabilities Identify roles for A.I. in an organization Select tasks for A.I. Select "learning method" for A.I.	Concepts Theory of Constraints Data & Features Machine Learning Types: - Supervised vs. Semi- vs. Unsupervised vs. Reinforcement - Batch vs. Online - Instance vs. Model-based Precision vs. Recall Algorithms: SVM, Random Forests, Neural Networks, k-means (both written & graphical representation)		Motivations Understand how to leverage A.I. for maximum benefit Remove confusion and mystery surrounding A.I.	Learners STEM undergraduates STEM workers
Double-loops Bottleneck Identification A.I. Role & Goal Desired A.I. Capability Learning Available Method Data	Experiences Working together with A.I. to accomplish a task (drawing) Controlling A.I. by altering parameters (traffic simulator) Creation (and adjustment based on feedback) of an A.I. Utilization Plan	Scaffolding Pomegranates Dogs Self-driving cars iOS/Android Phone Assistants Online Shopping		Mediums Shared classroom Website (capacitycanvas.com: text, images, & video content) Google Drive (Forms) Google Drawing (Proposal) Al Demos: "Auto Draw", "Draw Together", "Teachable Machine", & "Deep Traffic"	Mentors Facilitator Cohort
<ul> <li>Follow-up Feedback on A.I. proposal Test after course completion Survey after course completion</li> <li>Metrics % of participants that completed A.I. proposal project After course test score measuring basic A.I. concepts Survey before/after measuring their confidence in using A.I. effectively</li> </ul>			<ul> <li>Costs Learner Time: ~2.5hrs total (Day 1-7: 15min/day for course; 5 min/ day for feedback review; Day 8: 15min interview to go over canvas) Mentor Time: ~1.5 hrs total (per participant) (Day 1-7: 10 min/day for feedback review; Day 8: 20min for interview and processing)</li> <li>Partners Tapestry Solutions Inc. Testing Department Cal Poly Pilot Course: IME 471: Storytelling with Data: Analytics Fundamentals for Industrial Engineers</li> </ul>		

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