

Course Rec Sys WBS Spreadsheet					R - Responsible	Completes the deliverable or task.	A - Accountable	Makes final decisions and signs off on task completion. Only 1 per task.	C - Consulted	An advisor, stakeholder, or subject matter expert who offers guidance before an action is taken.	I - Informed	Kept up to date on decisions made.				
Milestone	ID	Task	Owner	Duration (days)	Notes	Director of Customer Data	Head of Data Science and ML	Existing Clients and Employees	Director of Procurement	IT Director	Product Manager	Team Data	MPM and AM	Team IT	Financial Analyst	HR
Establish course recommender system plan	1.1	Hire Data Science and Data Engineer	Human Resources Specialist	30	The Human Resource Specialist oversees hiring	I	A			I	I	C	I	I		R
	1.2	Align project with business needs, requirement and constraints	Data Science and Machine Learning	5	The Data Science and Data Engineer collect data	A	R			I	I	I	C	I	I	I
	1.3	Selection and data wrangling (pre-processing and transformation)	Data Science and Machine Learning	7	The Data Science and Machine Learning pre-process the data. Clean/clear, objective and valuable data acquired.	C	A			I	I	R	I	I	I	I
Analyze course recommender system	2.1	Understanding data for accurate prediction	Data Science and Machine Learning	7	The Data Science and Machine Learning focus and elaborate data statistically to understand more.	A	R			I	I	I	I	I	I	I
	2.2	Leverage exploratory data analysis (data mining)	Data Science and Machine Learning	14	The Data Science and Machine Learning focus and elaborate data statistically to uncover pattern and address irregularities (data mining)	A	R			I	I	C	I	I	I	I
Construct course recommender system	3.1	Construct and evaluate model	Data Science and Machine Learning	5	The Data Science and Machine Learning choose the best model according to the metrics.	A	R			I	I	C	I	I	I	I
	3.2	Source Cloud for Architectural	IT Director	20	The IT Director sources materials	I	C			A	C	I	I	R	I	I
	3.3	Calculate Project Cost and Benefit	Financial Analyst	4	The Financial Analyst tracks costs and revenue	C	A			I	C	I	I	I	R	I
Execute course recommender system	4.1	Presentation	Data Science and Machine Learning	3	Share and present project result to the project team	A	R			I	I	C	I	I	I	I
	4.2	Start Execute	Data Science and Machine Learning	5	Initiate execution course recommender system after approval	A	R			I	I	C	I	I	I	I
Select and install software and equipment	5.1	Supervise setup of course recommender system	API Specialist	5	The Data Science and Machine Learning setup fullstack with course recommender system and oversees software installation	I	C			I	I	I	I	I	I	I
	5.2	Maintain course recommender system	Data Science and Machine Learning	5	The Data Science and Machine Learning maintain course recommender system	A	R			I	I	C	I	I	R	I
	5.3	Supervise vendor installation of the equipment	IT Director	5	The IT Director ensures equipment is functional with the help of the Data Governance Manager/Quality Assurance Tester	I	C			A	C	I	I	I	I	I
	5.4	Establish internal security protocols for equipment	Data Governance Manager	2	The Data Governance Manager/Quality Assurance Tester ensures product quality and determines security protocols and best practices	I	C			I	A	C	R	I	I	I
	5.5	Launch course recommender system	IT Director	3	The IT Director launch the course recommender system					I	I	I	I	I	I	I
Promote course recommender system as to assist user in their study journey.	6.1	Banner add on social media	Marketing Promotion Manager	5	The Marketing Promotion Manager develop click through banner add	A	C			I	I	C	I	R	I	I
	6.2	3 press pieces published in relevant print and online publications	Marketing Promotion Manager	5	The Marketing Promotion Manager publish relevant print and online publication	A	C			I	I	C	I	R	I	I
Establish and experiment platform - software	7.1	Implement A/B Testing	Data Science and Machine Learning	14	Test the Recommender System	I	C			I	I	R	I	A	I	C
	7.2	Apply Multiarmed Bandit and Bayesian Optimization	Data Science and Machine Learning	14	Test the Recommender System	I	C			I	I	R	I	A	I	C
Marketing and TV Ads Campaign	8.1	Marketing Ads	Marketing Promotion Manager	14	The Marketing Promotion Manager develop Product Service Announcement (PSA)	A	C			I	I	C	I	R	I	I
	8.2	TV Ads	Marketing Promotion Manager	14	The Marketing Promotion Manager develop TV Ads Campaign	A	C			I	I	C	I	R	I	I
Actively and meaningfully engage the user to generate buy-in and project support.	9.1	3 live YouTube focused on transit talks	Product Manager	7	The Product Manager develops the training sessions with the help of the Training Manager	I	C			I	I	I	R	I	A	C
	9.2	75% of Users surveyed before launch	Product Manager	5	The Training Manager runs the training program on the established protocols	I	C			I	I	R	I	A	I	C
	9.3	70% of top users participate in user outreach program	Product Manager	5	The Training Manager refines training processes	I	C			I	I	R	I	A	I	C