Budget: Project Course Recommender System **Operations & Training**

											ARGET	ACTUAL/FINAL SPEND		UNDER/ OVER
										\$	154,936.00		<	154,936,00
										,	134.330,00	7	,	134.330,00
	LABOR		MATERIALS				OTHER				BUDGET	ACTUAL	UND	DER/OVER
MILESTONES & TASKS	EMPLOYEE	HOURS RATE	UNITS \$/UNIT(S) TRAVE		UIPMENT / SPACE	FIXED	MISC.	TOTAL OTHER					
Milestone 1: Establish course recommender system plan						OI AOL								
Task 1: Hire Data Science and Data Engineer	Human Resources Specialist	80 \$ 40,00		\$ -	\$	- \$	-	\$ -	\$ -	\$	3.200,00		\$	(3.200,00)
Task 2: Align project with business needs, requirement and constraints	Data Science and Machine Learning	20 \$ 65,00		\$ -	\$	- \$		\$ -	\$ -	\$	1.300,00		\$	(1.300,00)
Task 3: Selection and data wrangling (pre-processing and transformation)	Data Science and Machine Learning	28 \$ 65,00		\$ -	\$	- \$	-	\$ -	\$ -	\$	1.820,00		\$	(1.820,00)
									Total	1 \$	6.320,00	\$ -		
Milestone 2: Analyze course recommender system														
Task 1: Understanding data for accurate prediction	Data Science and Machine Learning	28 \$ 65,00		\$ -		- \$		\$ -	\$ -	\$	1.820,00		\$	(1.820,00)
Task 2: Leverage exploratory data analysis (data mining)	Data Science and Machine Learning	56 \$ 65,00		\$ -	\$	- \$	-	\$ -	\$ -	\$	3.640,00		\$	(3.640,00)
									Total	1 \$	5.460,00	\$ -		
Milestone 3: Construct course recommender system	Data Science and Machine Learning	20 6 50 00		\$ -	s	- s		s -	s -	\$	1.000.00		\$	(4.000.00)
Task 1: Construct and evaluate model Task 2: Source Cloud for Architectural	IT Director	20 \$ 50,00 8 \$ 130.00		\$ -		- \$ - \$			-	\$	1.000,00		\$ \$	(1.000,00)
Task 3: Calculate Project Cost and Benefit	Financial Analyst	16 \$ 30,00		\$ -		- \$ - \$			\$ - \$ -	\$	480.00		\$	(480,00)
Task 3. Calculate Project Cost and Benefit	Financial Analyst	16 \$ 30,00		φ -	. 3	- 5		3 -	Total		2.040.00	s -	Ф	(460,00)
Milestone 4: Execute course recommender system									TOtal	1 9	2.040,00	-		
Task 1: Presentation	Data Science and Machine Learning	12 \$ 65,00		\$ -	s	- \$		S -	s -	s	780.00		\$	(780,00)
Task 2: Start Execute	Data Science and Machine Learning	20 \$ 65,00		\$ -		- \$			s -	\$	1.300,00		s	(1.300,00)
Tubi E. Start Enddato	Data colorios and macrimo courring	20 0 00,00				, , , , , , , , , , , , , , , , , , ,			Total	<u> </u>	2.080.00	s -	Ť	(1.000,00)
Milestone 5: Select and install software and equipment										1		•		
Task 1: Supervise setup of course recommender system	API Specialist	20 \$ 40,00		\$ -	s	- \$	-	s -	S -	\$	800,00		\$	(800,00)
Task 2: Maintain course recommender system	Data Science and Machine Learning	20 \$ 65,00		\$ -	· s	- \$	-	s -	\$ -	\$	1.300,00		\$	(1.300,00)
Task 3: Supervise vendor installation of the equipment	IT Director	20 \$ 130,00		\$ -	S .	- \$		s -	\$ -	\$	2.600,00		\$	(2.600,00)
Task 4: Establish internal security protocols for equipment	Data Governance Manager	8 \$ 45,00		\$ -	\$	- \$		\$ -	\$ -	\$	360,00		\$	(360,00)
Task 5: Launch course recommender system	IT Director	12 \$ 130,00		\$ -	\$	- \$	7.700,0	00 \$ 300,00	\$ 8.000,00	\$	9.560,00		\$	(9.560,00)
									Total	I \$	14.620,00	\$ -		
Milestone 6: Promote course recommender system as to assist user in their stud	ly journey.													
Task 1: Banner add on social media	Marketing Promotion Manager	20 \$ 45,00		\$ -	\$	- \$	8.000,0	00	\$ 8.000,00	\$	8.900,00		\$	(8.900,00)
Task 2: 3 press pieces published in relevant print and online publications	Marketing Promotion Manager	20 \$ 45,00		\$ -	\$	- \$	2.500,0	00 \$ 3.000,00			6.400,00		\$	(6.400,00)
									Total	1 \$	15.300,00	\$ -		
Milestone 7: Establish and experiment platform - software														
Task 1: Implement A/B Testing	Data Science and Machine Learning	56 \$ 65,00		\$ -		3.000,00 \$	10.000,0		\$ 13.000,00	-	16.640,00		\$	(16.640,00)
Task 2: Apply Multiarmed Bandit and Bayesian Optimization	Data Science and Machine Learning	56 \$ 65,00		\$ -	\$	- \$	-	\$ 2.000,00			5.640,00		\$	(5.640,00)
									Total	1 \$	22.280,00	\$ -		
Milestone 8: Marketing and TV Ads Campaign	Manhatina Bassastian Managan	FO 8 45 00				- \$	40.500.0	00 00000	\$ 12,500,00	s	45 000 00			(45,000,00)
Task 1: Marketing Ads Task 2: TV Ads	Marketing Promotion Manager Marketing Promotion Manager	56 \$ 45,00 56 \$ 45.00		\$ - \$ -		- \$ - \$	25.000.0		\$ 12.500,00 \$ 25.000.00		15.020,00 27.520.00		\$	(15.020,00) (27.520,00)
Task 2: TV Ads	Marketing Promotion Manager	56 \$ 45,00		\$ -	. 3	- 5	25.000,0	00 \$ -	\$ 25.000,00 Total		42.540.00	s .	Ф	(27.520,00)
Milestone 9: Actively and meaningfully engage the user to generate buy-in and									Total	, ,	42.540,00	-		
project support.														
Task 1: 3 live YouTube focused on transit talks	Product Manager	28 \$ 47,00		\$ -	\$	- \$	6.000,0	00 \$ 3.000,00	\$ 9.000,00	\$	10.316,00		\$	(10.316,00)
Task 2: 75% of Users surveyed before launch	Product Manager	20 \$ 47,00		\$ -	\$	- \$	10.000,0	00 \$ -	\$ 10.000,00	\$	10.940,00		\$	(10.940,00)
Task 3: 70% of top users participate in user outreach program	Product Manager	20 \$ 47,00		\$ -	\$	- \$		00 \$ 1.000,00			19.440,00		\$	(19.440,00)
									Total	I \$	40.696,00	\$ -		
Reserve buffer										\$	3.600,00			
TOTAL										s	454 020 00	•		
TOTAL										\$	154.936,00	- -		