PLD 450 IT Project Plan

	Task	Description	Status	Start Date	End Date	Predecessors	Duration
1	**Project: Preventive Insights**	A predictive analytics project to identify patients at risk for improved patient outcomes.		04/08/24	05/06/24		29d
2	**Planning and Requirements Gathering**			04/08/24	04/12/24		5d
3	Define Motivation	Your personal connection or drive to create the proposed project	Complete	04/08/24	04/08/24		1d
4	Define Background	Overall topic of your proposed project	Complete	04/08/24	04/08/24		1d
5	Identify access to necessary health data sets		Complete	04/09/24	04/11/24	3, 4	3d
6	Finalize project scope statement		Complete	04/12/24	04/12/24	5	1d
7	MILESTONE - Approval of project scope		Complete	04/12/24	04/12/24	3, 4, 5, 6	0
8	**Data Collection and Preparation**			04/13/24	04/21/24		9d
9	Data Sources	State your sources - i.e. printer, electronic, videos, webinar, or electronic material	Complete	04/13/24	04/15/24	6	3d
10	Collect historical patient data		Complete	04/16/24	04/19/24	9	4d
11	Cleanse and normalize data		Complete	04/20/24	04/21/24	10	2d
12	MILESTONE - Completion of data collection		Complete	04/21/24	04/21/24	6, 10, 11	0
13	MILESTONE - Data ready for analysis		Complete	04/21/24	04/21/24	11	0
14	**Model Development and Initial Testing**			04/22/24	05/01/24		10d
15	Select and train machine learning algorithms	Python using libraries Numpy, Pandas, MatPlotLib, & Scikit-Learn	Complete	04/22/24	04/24/24	13	3d
16	Evaluate model using basic performance metrics		Complete	04/25/24	04/26/24	15	2d
17	MILESTONE - initial model development complete		Complete	04/24/24	04/24/24	15	0
18	MILESTONE - First round of testing complete		Complete	04/26/24	04/26/24	16	0
19	Refine the model based on initial testing feedback	Tune model parameters	Complete	04/27/24	04/28/24	16	2d
20	New - Apply data to new model using pipeline		Complete	04/29/24	05/01/24	19	3d
21	**Implementation Planning and Deployment**			05/02/24	05/02/24		1d
22	Build development plan	This includes interviews/discussions with healthcare providers and integration with existing systems	Complete	05/02/24	05/02/24	16, 19, 20	1d
23	Prepare model for deployment	For this project, document steps for deployment	Complete	05/02/24	05/02/24	20	1d
24	MILESTONE - Documentation focused on system being ready for live deployment		Complete	05/02/24	05/02/24	23	0
25	**Project Closeout and Review**			05/02/24	05/06/24		5d
26	Document project findings		Complete	05/02/24	05/03/24	20	2d
27	Prepare document project closing documents for presentation		Complete	05/02/24	05/04/24	20	3d
28	Prepare a presentation of the project	Powerpoint presentation	Complete	05/05/24	05/06/24	27	2d
29	Schedule Zoom call with the professor for the presentation of the project		In Progress	05/05/24	05/05/24	27	1d
30	MILESTONE - Project formally closed			05/05/24	05/05/24	29	0

Comments

Row 18: MILESTONE - First round of testing complete

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First model produced an unexpected accuracy of 100% for training, validation, and test. This is nearly impossible. Reevaluating model and parameters in an attempt to define a new approach.