

# PLD 450 IT Project Plan

Task	Description	Status	Start Date	End Date	Predecessors	Duration
1 <b>Project: Preventive Insights</b>	A predictive analytics project to identify patients at risk for improved patient outcomes.		04/08/24	05/03/24		26d
2 <b>Planning and Requirements Gathering</b>			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 <b>Data Collection and Preparation</b>			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 <b>Model Development and Initial Testing</b>			04/22/24	04/28/24		7d
15 Select and train machine learning algorithms	Python using libraries Numpy, Pandas, Matplotlib, & Scikit-Learn	In Progress	04/22/24	04/24/24	13	3d
16 Evaluate model using basic performance metrics			04/25/24	04/26/24	15	2d
17 MILESTONE - initial model development complete			04/24/24	04/24/24	15	0
18 MILESTONE - First round of testing complete			04/26/24	04/26/24	16	0
19 Refine the model based on initial testing feedback	Tune model parameters		04/27/24	04/28/24	16	2d
20 <b>Implementation Planning and Deployment</b>			04/29/24	04/29/24		1d
21 Build development plan	This includes interviews/discussions with healthcare providers and integration with existing systems		04/29/24	04/29/24	16, 19	1d
22 Prepare model for deployment	For this project, document steps for deployment		04/29/24	04/29/24	19	1d
23 MILESTONE - Documentation focused on system being ready for live deployment			04/29/24	04/29/24	22	0
24 <b>Project Closeout and Review</b>			04/29/24	05/03/24		5d
25 Document project findings			04/29/24	04/30/24	19	2d
26 Prepare document project closing documents for presentation			04/29/24	05/01/24	19	3d
27 Prepare a presentation of the project	Powerpoint presentation		05/02/24	05/03/24	26	2d
28 Schedule Zoom call with the professor for the presentation of the project			05/02/24	05/02/24	26	1d
29 MILESTONE - Project formally closed			05/02/24	05/02/24	28	0