

SPL1 Project Proposal Form, 2022
Institute of Information Technology (IIT)
University of Dhaka

Student's Name:	Abir Ashab Niloy		
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Project Description: Machine Learning Algorithms There are several algorithms regarding machine learning in which some of them are widely used. Here I will construct some introductory and widely used ML algorithms using C, C++ which will make our road of learning ML easier and will build a strong base for doing something bigger in future. The algorithms I will construct are given below: Logistic regression - It helps predict the probability of an event by fitting data to a logit function. It is also called logit regression. Decision tree - This popular algorithm works well in classifying both categorical and continuous dependent variables. Random forest - A collection of decision trees is called a random forest. To classify a new object based on its attributes, each tree is classified, and the tree "votes" for that class. Support vector machine - Support vector machines (SVMs, also support vector networks) are supervised learning models with associated learning algorithms that analyze data for classification and regression analysis. K-means - It is an unsupervised learning algorithm that solves clustering problems.			
Languages or Tools to be used: C, C++, Vs Code, Sublime-Text, Git, Github			
Supervisor's Name: Kishan Kumar Ganguly Signature of the supervisor: _____ Date: _____			