SPL1 Project Proposal Form, 2024
Institute of Information Technology (IIT)
University of Dhaka

Student's Name:	Sabbir Ahmed		
Student's Roll:	1530	Phone:	01740901498

Regression Analysis

Project Description:

This project implements regression analysis models in C and C++ programming to demonstrate their practical applications. It features multiple linear regression models, including **House price prediction** and **weather forecasting**. In the house price model, variables like square feet, location, security, garage, floor number, number of rooms and year built are used to estimate property values. The weather forecasting model uses factors such as temperature, humidity, pressure, season and wind speed to predict future weather patterns. Additionally, the project incorporates a nonlinear regression, enabling the modeling of more complex data relationships. This approach showcases the versatility of regression techniques in solving real-world problems. The project emphasizes efficiency, accuracy, and clean code to help users understand the foundational concepts of regression analysis and its applications.

Languages or Tools to be used:

Language **:** C and C++.
IDE **:** VSCode/CodeBlocks
Git/Github : to store code

Supervisor's Name: Dr. Rezvi Shahariar

Signature of the supervisor: _____

Date: _____

Before the Midterm Presentation:

I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.

Signature of the supervisor:_____

Date: _____

Midterm Presentation Feedback: