


SPL1 Project Proposal Form, 2022
Institute of Information Technology (IIT)
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Student's Name:	Khondaker Tasnia Hoque		
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<p>Project Description: Data Science Visualizer</p> <p>Data science visualizer is such a project that will analyze different type of dataset , show the impact of specific or several factors and finally interpret the characteristic of the specific dataset and give the final disposal of a research.</p> <p>At first mainly two types of dataset will be provided by user.</p> <ol style="list-style-type: none">1. Data set containing dependent and independent variable2. Dataset containing minimum two groups. (It may be the temperature during march and July , it may be the result of students of three different schools, it may be the blood pressure of people of age below 40 and above 40) <p>Then the program will detect is there any factor or not. If there is no factor over the dataset, the hypothesis will be concluded by Z test, T test ,Paired t test as per requirement.</p> <p>If user puts such a dataset where independent and dependent variable exist and want to predict the the y value for any x value (such as the salary prediction of a person who has work experience of 20 years, corona risk of a person of age 60 etc.) ,in this case the program will perform 1. Linear regression analysis 2. Correlation coefficient (which determines the dependency of dependent variable over independent. For example the percentage of increasement of salary of a person whose work experience is more) 3. Polynomial regression if needed. If any factor is detected, factor means a dataset whose group number is more than 2 , suppose the SSC result of school A, B and C , total 3 groups are there , Among this 3 schools , school B has adopted a special type of study system. My task is to determine if the study system is effective or not. Here the factor is only "school".</p> <p>Depending on this factor I will do "ANOVA" test and set my hypothesis that "Results of three schools are same" .After calculation and analysis of the given dataset it will finally show the hypothesis is rejected or not. It the hypothesis is rejected that means there is difference between result. So the method applied by school B is effective.</p> <p>This project is based on research field. The main purpose is to help a researcher for giving any prediction, to analyze how much effective a method, any product or any factor over population. By keeping record of data of a certain event one will be able to understand the work he wants to perform will be successful or not.</p>			
Languages or Tools to be used: C++			
Supervisor's Name: <u>Dr. Md. Shariful Islam</u>			
Signature of the supervisor: 			

Date: 06/02/2022

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: