

<b>Group Number:</b> 51	
<b>Name and Index Number of the Students</b>	
<b>Student 1</b>  Name: Jegan.T Registration Number: EG/2021/4590 Student Email: jegan_t_e23@engug.ruh.ac.lk	<b>Student 2</b>  Name: Munsif M.F.A Registration Number: EG/2021/4684 Student Email: munsif_mfa_e23@engug.ruh.ac.lk
<b>Project Title:</b> Prediction of Concrete Compressive Strength	
<b>Project Description:</b>  <b>Overview</b> The objective of this project is to predict the compressive strength of concrete using various input components through machine learning techniques. We will utilize a dataset containing quantitative measurements of different concrete components and the resulting compressive strength. The primary focus will be on applying linear regression and SVM to establish a relationship between the input variables and the concrete compressive strength, which is a regression problem.  <b>Expected Outcome:</b> By the end of this project, we aim to have a robust model that can accurately predict the compressive strength of concrete based on its components. This can aid in optimizing concrete mixtures for construction purposes, ensuring the desired strength and quality	
<b>Dataset Link:</b> <a href="https://archive.ics.uci.edu/dataset/165/concrete+compressive+strength">https://archive.ics.uci.edu/dataset/165/concrete+compressive+strength</a>	
<b>Original Number of Features in the Dataset:</b> 8	
<b>Target Variable (For Supervised Learning):</b> Concrete Compressive Strength	
<b>Type of the Problem:</b> Supervised - Regression	
<b>Algorithm Selected:</b>	
<b>Algorithm 01:</b> Linear Regression	<b>Algorithm 02:</b> SVM