Project Charter for Requirements Engineering Project

Project Name: Student Performance Prediction	**Champion: Bhavani Sai Shriya Anumala**
Business or Process Owner: TBD	Project Leader: Ajith Ponugoti
Problem Statement: Prediction of Student performance by studying the features available. Performance prediction is highly required by the education system these days, as this will help the teachers, identify the students at risk and provide resources to them to reduce the overall failure rate.	Project Goal: To predict the result of the test data and check how accurately the algorithm works.
Business Case: The purpose of any teaching process is to enhance overall students' academic success. Prediction of student performance is very helpful for students and teachers as it can minimize poor academic performance and bring reputation to the school.	Project Scope: The initial step of this project is Data Gathering. • we decide on what kind of data should be used and what type of approach should be followed Data Preprocessing: • Includes importing of the datasets • cleaning of the data • Splitting of the dataset into training and test data • Feature scaling Exploratory Data Analysis • Data Exploration involves understanding the patterns and trends in the data. • At this stage, all the useful insights are drawn and correlations between the variables are understood. Implementing Regression model • Training Linear Regression model to understand the correlation between the grades and the results of the students. • The model will calculate all the correlations after which we can predict new observations on which it was not trained. Using regression analysis, we will be able to check how close the prediction is in accordance with the trained data and derive visualizations.
Team Members: Ajith Ponugoti 1001958039 Bhavani Sai Shriya Anumala 1001870184 Pathik Patel 1001846320	Benefits: Time saving, Efficient, Graspable impacts seen on performance by discrete attributes, Engagement with career mentors and students, Gaining valuable career insights.