

HW2 Report

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Abstract

We have a dataset of various factors at measurement sites in rivers in the Rocky Mountains, as well as the corresponding flow at that site. We used this data to create a linear model of 'Metric' (the measure showing flow rate at a site) to predict the flow rate of a river given various input factors. Using the modeling methods, we found that the factors that most impact the flow 'Metric' are X Y Z. We found that these factors explain X% of the variance in 'Metric'. We also identified that our predictive model has an RMSE of X.

1: Introduction

The Rivers dataset is a record of river flow rates (Metric) of various rivers across the Rocky Mountains, along with the measurements of corresponding factors. We want to use this data to create a predictive model to 1) Understand which variables are most impactful in determining river flow rate 2) Identify how well our selected model explains the variance of flow rate 3) Quantify how predictive our selected model is of overall flow rate