

CS2 Rubric – Case Study

DUE: TBD

General Description: Submit to canvas a link to your case study repository

Why am I doing this? This study is designed to culminate all of your data science skills you have worked hard to learn over the course of the past year. This project will challenge you to utilize data cleaning, analysis, and presentation skills, all of which will be beneficial to you.

What am I going to do? In this assignment, you are to perform the predictive analysis as defined in the rubric. Then, you will generate a written report documenting the EDA, results, and figures you generated along the way. You will create a github repository with all the above and submit it to Canvas when completed.

Formatting	<p>Submit all of the following as a github repo link on Canvas</p> <ul style="list-style-type: none">• Written report<ul style="list-style-type: none">◦ This should be a PDF file in the Github• Code<ul style="list-style-type: none">◦ Submit code used to perform EDA, analysis, and generate figures◦ Include the data you used in the repository• README.md<ul style="list-style-type: none">◦ A detailed README.md file should be available that contains a directory map as well as references◦ References should be in IEEE style
Written Report	<ul style="list-style-type: none">• PDF format• Two page maximum• This report should contain<ul style="list-style-type: none">◦ A brief explanation of your understanding of the project motivation, with citations◦ The steps taken to perform EDA as well as any figures generated in the process◦ The steps taken to perform analysis as well as any figures generated in the process
Code	<ul style="list-style-type: none">• Code for EDA, Analysis, and Figure generation must all be in the repository

	<ul style="list-style-type: none"> • You must perform at least 2 data cleaning steps, and generate at least 6 figures • Your code should show a functional Isolation Forest model capable of detecting anomalies in parking trends <ul style="list-style-type: none"> o You can find the data in the DATA folder on Github • Include comments so that your work is interpretable by other students
README	<p>Your README must include</p> <ul style="list-style-type: none"> • A high level project description • A description of the software and platform used to generate the analysis • A repository map of some kind (a figure, or text based map) • Steps to reproduce your results • Any relevant citations in IEEE style