

# Machine Learning

\*Analyzing problems, designing a machine learning solution, implementing ML algorithms, and evaluating data sets

1<sup>st</sup> Saksham Saxena  
*UMass Lowell.*  
*Machine Learning*

2<sup>nd</sup> Rushabh Doshi  
*UMass Lowell.*  
*Machine Learning*

3<sup>rd</sup> Luke Beaulieu  
*UMass Lowell.*  
*Machine Learning*

4<sup>th</sup> Utkarsh Patel  
*UMass Lowell.*  
*Machine Learning*

**Abstract**—This paper presents the analysis and evaluation on data sets using machine learning techniques. Our method in this assignment consist of working with three data sets and implement ML algorithms on them to understand more about the field of machine learning and its applications in the real world. The three three data sets worked on in this project was Boston housing, breast cancer, and Forest Coverttype.

**Index Terms**—introduction, methodology, result, discussion, conclusion

## I. INTRODUCTION

The goal of this final project is to show that we have learned something in the class. It is an opportunity for us to explore ideas that we have see in the lectures and assignments and extend them. This project is a first steps towards research in machine learning or its applications. We will analyze problems, design a machine learning solution, implement ML algorithms, and evaluate them on three data sets (one for classification and one for regression from Small Data Sets and one data set either classification or regression from Large Data Sets).

## II. LITERATURE REVIEW

## III. METHODOLOGY

## IV. RESULTS

## V. CONCLUSION

This was a great introduction to the world of machine learning and we would definitely like to continue to build data to get more practice and experience in the model that we have learned over the semester.