

PRESENTATION OUTLINE: A Comparative Analysis of Machine Learning Methods for Predicting the Presence of Crohn's Disease

Aatreyi Pranavbhai Mehta
School of Computer Science
Carleton University
Ottawa, Canada K1S 5B6
aatreyipranavbhaime@cmail.carleton.ca

November 30, 2021

1 Introduction

- Aim
- About Crohn's Disease
- The gut bacteria responsible for CD

2 Previous Methods used to test CD

- Colonoscopy vs CT Scan
- The Issue

3 Suggested Test Method

- Fecal Calprotectin – a suggested way to measure progression of CD
- FC level and its association with IBD

4 The Algorithms of Machine Learning

- Logistic Regression
- Support Vector Machine
- Artificial Neural Network
- Random Forest Approach

5 Programming

- The programming language used
- The Data set
- The Libraries used
- Brief explanation of the coding

6 Results

- Dissection of the output of the code

7 Conclusion

- A Concluding statement

8 References

9 Questions based on the explanation