**A COMPARATIVE ANALYSIS OF MACHINE LEARNING ALGORITHMS**

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**Abstract:** This project is about a system to analyse machine learning algorithms. We have worked on a medicine recommendation system wherein people can know the medicine combination most likely to be bought and act accordingly. This is achieved through two methods – Apriori and ECLAT model so that we can compare the behaviour of both these systems. In addition to this we have explored classification algorithms and compared 5 of them based on their accuracy to have a grasp of how different algorithms behave in a particular case.

**Individual contribution and findings**:

I researched about the related works carried out and took some inspiration from them to enhance our project.

The dataset which was fed to the model as input was prepared by me and I also did some portions of the recommendation system – related to pre-processing and tuning the model.

The classification portion of the project was entirely done by me along with adding visuals for the most common medicine combinations.

**Individual contribution to project report presentation**:

The theory provided in the machine learning portion was largely my work – the entire chapter consisting of portions related to classification, comparison and results analysis was done by me.

I organised the planning part into a Gantt chart and included it in the report.

I searched and put together the references for this project.

The final report was organised and put together, edited and made presentable, all the while taking care of the format specified, by me.

**Individual contribution for project presentation and demonstration**:

The entire presentation(ppt) was made by me.

The report, presentation and plagiarism report was made ready by me before the deadline, so that if necessary, changes could be made.

The final edits to the presentation to make it adhere to plagiarism limits and make it hassle free for evaluation were also mine.



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