**Abstract:**This project aims to create a Machine Learning model which will classify all the ingredients and generate the various recipes which can be made from the given ingredients. Another benefit of a recipe generator machine learning model is that it can help to reduce food waste. By suggesting recipes that use up ingredients that are about to go bad, the model can help people to make the most of the food they have on hand, rather than letting it go to waste.

This model aims to generate multiple different recipes from the selected ingredients successfully. The model’s main objective is to provide the user with a recipe that promotes or allows efficient usage of the ingredients from an average everyday’s pantry. It also provides the user with detailed recipes that even a rookie can follow

**Individual contribution and findings:** As a member of the project group, my role involved designing the javascript code. I began by researching and comparing various machine learning models to determine which would be best suited for our project goals. I analyzed the performance of each model by conducting experiments and evaluating the results. Additionally, I collaborated with other team members to optimize the code . To ensure efficient planning, I established timelines and milestones for completing the javascript code and evaluation phase of the project. I communicated regularly with other team members to ensure that we were all on the same page and working towards the same goals. During this process, I gained valuable technical knowledge . Through my contributions, the team was able to make informed decisions and achieve the desired project outcomes. Overall, my experience of writing the javascript code has provided me with a solid foundation , which I will continue to build upon in my future studies and career.