**ABSTRACT**

The ever-growing population of this world needs more food production every year. The loss caused in crops due to weeds is a major issue for the upcoming years. This issue has attracted the attention of many researchers working in the field of agriculture. There have been many attempts to solve the problem by using image classification techniques. These techniques are attracting researchers because they can prevent the use of herbicides in the fields for controlling weed invasion, reducing the amount of time required for weed control methods. This article presents use of images and deep learning-based approach for classifying weeds and crops into their respective classes. In this paper, pre-trained convolution neural networks (CNN), namely MobileNetV1, have been used to classify weed and crop into their respective classes. The experiments have been done on Kaggle plant seedling classification dataset. MobileNet v1 gave the results with 99% testing accuracy.

Software Used: Google Collab

Hardware Used: Ubuntu

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| **CONTENTS** | | | | |
|  | | | | |
| **Chapter 1** | | | **INTRODUCTION** | **1** |
|  | | | | |
| **Chapter 2** | | | **METHODOLOGY** | **2-3** |
|  | | | | |
| **Chapter 3** | | | **RESULT ANALYSIS** |  |
|  | 4.1 | Code | | **4-7** |
|  | 4.2 | Result | | **8** |
|  | | | | |
| **Chapter 4** | | | **CONCLUSION** | **9** |