

**PLANTS IDENTIFICATION USE OF PLANT SEEDLING  
CLASSIFICATION BASED ON DEEP LEARNING  
ALGORITHMS**

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A dissertation submitted in partial fulfilment of the requirement for  
Bachelor of Science (Honours) degree in Computer Science

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In collaboration with  
University of Westminster, UK**

**2020**

## **Abstract**

Agriculture pathway is significant for mankind endurance and stays a significant method of a lot of economies around the globe, all the more so in undeveloped, developed and developing country created economies. With expanding interest for nourishment and money crops, because of a developing worldwide population and the difficulties given by environmental change. The giving a suitable endurance to meet and fulfil the crop cultivation process that would be great in current conditions.

One of the major reasons for the reduction in crop yield is weed infringement on farmlands. Weeds commonly have no useful value in terms of food. The main target of this research is to build a plant identification system and distinguish weeds from plants. Importance of this system is it's focusing plant seedling stage and system developed based on deep learning approach rather than using a traditional machine learning.

The main grant of this work is introducing a new user-based platform (mobile app/web app) to take a picture and identify plant seedling. Then its automatically defocusing weeds from crop yield. Based on current system developers can achieve more than this to new IoT systems and drone technologies. This current approach is to give an accurate base platform to that high technology

**Keywords:**

Machine learning, Deep learning, Mobile app, Weeds, IoT, Drone