**A Project Status Report**

**on**

**FARM DOCTOR**

**By**

**PRIYANSHU ARYA (1903480100079)**

**RISHIKA GUPTA (1903480100086)**

**SHREJAL RAI (1903480100100)**

**Bachelor of Technology**

**In**

**Computer Science and Engineering**

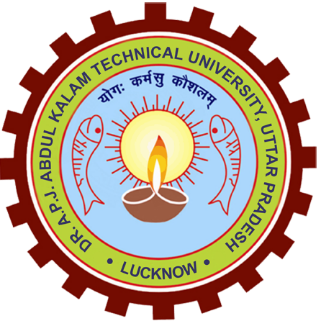
**Under the Supervision of**

**MR. AMIT KUMAR SHARMA**

**(Assistant Professor)**

**PSIT COLLEGE OF ENGINEERING, KANPUR**

**to the**



**Faculty of Computer Science and Engineering**

**Dr. A.P.J. Abdul Kalam Technical University, Lucknow**

**(Formerly Uttar Pradesh Technical University)**

**DECLARATION**

I, Priyanshu Arya, Rishika Gupta & Shrejal Rai, student of Bachelor of Engineering, Computer Science & Engineering, PSIT College of Engineering, Kanpur hereby declare that the work presented in the dissertation entitled “Major Project” is outcome of my own bona-fide work, which is correct to the best of my knowledge and this work has been carried out taking care of Engineering Ethics. The work presented does not infringe any previous work and has not been submitted to any University for the award of any degree / diploma.

The project report entitled “Major Project” being submitted by Priyanshu Arya (Roll No: 1903480100079), Rishika Gupta (Roll No: 1903480100086) & Shrejal Rai (Roll No: 1903480100100) has been examined by us and is hereby approved for the award of degree “Bachelor of Engineering in Computer Science & Engineering”, for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

**Name** **: Priyanshu Arya**

**Roll No** **: 1903480100079**

**Signature:**

**Name** **: Rishika Gupta**

**Roll No** **: 1903480100079**

**Signature:**

**Name** **: Shrejal Rai**

**Roll No** **: 1903480100100**

**Signature:**

**Mr. Amit Kumar Sharma**

**(Asst. Professor)**

**Abstract**

Rice is the staple food crop of a large population spread worldwide, today and in the past. Millions of people are dependent on rice for an active and healthy lifestyle. A smart and sustainable world is a pictograph that will come into reality with an abundance of quality food for humankind. Smart precision agriculture leading to the fulfilment of high-quality food is a challenge for many researchers. In the same series of thoughts, this chapter proposes a Smart App using Deep Learning that helps diagnose the rice crop disease to avoid failure of the crop. This chapter demonstrates an easy to handle, farmer-friendly mobile app, with the help of which farmers can take pictures of crop leaves as soon as some abnormality is observed. The app may then analyse the crop leaf image to predict the probability of suspected disease, which gives the farmer indication of loss and helps them take necessary preventive measures.

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