

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**B. TECH – IV YEAR – II SEM**

**TITLE OF THE APPLICATION:** Crop Recommendation System

**DOMAIN:** Machine Learning

**BATCH DETAILS:**

1. Sairam 2011CS010005

C. Manisha Reddy 2011CS010056

D. Nithin Reddy 2011CS010370

A. Roshan Kumar 2011CS010032

**GUIDE NAME:** Mrs. P. Shyamala

**ABSTRACT:**

In agricultural practices, maximizing crop yield while minimizing resource usage is paramount. Leveraging machine learning techniques, this project proposes a Crop Recommendation System aimed at assisting farmers in making informed decisions about suitable crops for cultivation. The system utilizes historical data on soil properties, climate conditions, and crop characteristics to predict the most suitable crops for a given region. We are using Python's Flask framework; the system provides a user-friendly web interface accessible to farmers and agricultural experts. Upon inputting relevant information such as soil type, temperature, and rainfall, the system employs machine learning algorithms to analyze the data and generate personalized crop recommendations.

**SIGNATURE OF GUIDE**