

# Optimisation of Agriculture Production

Prof. D. K. Jadhav<sup>1</sup>, Mr. S. S. Suryavanshi<sup>2</sup>, Mr. A. U. More<sup>3</sup>, Ms. D. V. Malkar<sup>4</sup>, Ms. A. B. Jagtap<sup>5</sup>

Professor, Department of CSE<sup>1</sup>

Students, Department of CSE<sup>2,3,4,5</sup>

Adarsh Institute of Technology & Research Centre, Vita, India

**Abstract:** *The Mechanism for A lack of understanding of ideal agricultural practises, which, if applied, can increase yields at low costs while optimising resource utilisation, is a key cause of agriculture's suffering. Many farmers are abandoning or moving away from farming, particularly agriculture, because they are not receiving a good return on their investment. In other words, they take out enormous loans to buy the tools, seeds, fertilizer, pesticides, and other resources required to grow crops, but the crop output is insufficient to meet the loan total, resulting in severe losses and debt. As a result, a substantial portion of our country's rich land, which was formerly the primary source of GDP, is being wasted, dealing a serious damage to the Indian economy. Through this research, we hope to provide a small but effective answer to this massive problem by assisting farmers in farming optimally—that is, by assisting them in selecting the crop that will generate the best yield given the farm's current soil and climate*

**Keywords:** Soil analysis, crop mapping, soil moisture, and precision agriculture