



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Accredited by NBA & NAAC, an ISO 9001:2015 Certified Institution
Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

GN-R-18 (2022 - 2023) II B.Tech II Semester Hobby Project

on

“Hortus Socius – A gardening dynamic web application”

Abstract

Agriculture is one of the most important sectors of the Indian economy and India ranks second worldwide in farm outputs. Since India is the second most populated country in the world. We cannot afford to make mistakes when it comes to the agricultural field. One prevailing trend is urban farming and the rise in interest of common people in gardening. The app makes use of ML and AI to enable the users of the website to perform different gardening tasks.

This application solves various problems the user may face while gardening such as finding the right plant, soil, pest and gardening tool data along with the right fit of plants depending on their weather. The website makes use of ML concepts such as knowledge graphs, CNN, NMT in its “Saplens” feature. An inbuilt logbook keeps track of the watering, pesticide, and fertilizer regime. The community feature in this app promotes user interaction and differentiates it from other existing technologies. Apart from providing the users with a database the additional features make this dynamic website stand out and serve user problems effectively.

It benefits urban farmers by promoting sustainability and self-sufficiency.

H/W & S/W Requirements

SOFTWARE REQUIREMENTS : Windows 10, Python 3.8, Flask

HARDWARE REQUIREMENTS: Intel i5 processor or more, 500GB hardisk.

*Dept R&D: No

* If No : GNITS



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