

# Suryateja Challa

Bengaluru, IN · suryatejachalla.dev@gmail.com · +91 96111 63045

LinkedIn · Github · Website

## EDUCATION

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### RV Institute of Technology and Management

B.E. Computer Science & Engineering · GPA: 9.04

Bengaluru, IN

12/2021 - Present

### Narayana CBSE College

Central Board of Secondary Education · Score: 91%

Bengaluru, IN

06/2019 - 07/2021

## EXPERIENCE

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### GC's Sports Medicine & Multispeciality Hospital

App Development Intern

Mysore, IN

11/2023 - 02/2024

- Developed a cross-platform mobile application for remote ICU patient monitoring, emphasising automation and real-time analytics.
- Managed deployment and operation, enabling real-time monitoring of **12 patients** and integrating Firebase for secure data storage.
- Delivered actionable insights through real-time analytics, enhancing patient care **24/7**.
- Automation initiatives led to **40% reduction** in paper-based records.

### RV Institute of Technology and Management

Student Researcher - CSE R&D Lab

Bengaluru, IN

10/2022 - 08/2023

- Proposed a novel machine learning solution to conserve **150+** vulnerable medicinal herbs.
- Developed decision tree-based models to precisely delineate **28 subregions** using the United Nations' FAO geospatial datasets.
- Achieved an accuracy of **99.01%** and **98.76%** for soil and subregion classification, respectively.
- Published **2 research papers** based on the study.

## PUBLICATIONS

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### Mapping of soil suitability for medicinal plants using machine learning methods

<https://doi.org/10.1038/s41598-024-54465-3>

Scientific Reports

02/2024

### An Early Recommendation Tool to Enhance Medicinal Plant Growth based on GIS and Soil Data

<https://doi.org/10.1109/IC2E357697.2023.10262541>

IEEE Xplore

09/2023

## SKILLS

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Programming Languages: Python · C/C++ · Java · Dart

Frameworks: TensorFlow · OpenCV · Django · Gradio · Flutter

Others: Git · Linux · SQL · Firebase

## PROJECTS

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### SignLangNET - Python · TensorFlow · OpenCV · Mediapipe · LSTM

Developed a real-time sign language translator, employing an LSTM neural network architecture, to enhance accessibility for the hearing impaired. Obtained a **96.4%** gesture translation accuracy.

### ClusterCraft - Python · NumPy · Flask · Scikit

Developed a web application with a custom k-Means algorithm for image clustering, deployed on flask. Attracted **3 contributors** during Hacktoberfest, promoting open-source engagement and skill development.