

# Sudarshan R. Hegde

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## CAREER OBJECTIVE

Highly motivated and detail-oriented Computer Science Engineering student with strong foundations in data structures and algorithms. Proficient in C++, Java, Python, and modern web technologies, with a passion for applying machine learning and AI to solve real-world problems, with a focus on continuous learning and impactful contributions.

## TECHNICAL SKILLS

- **Languages:** C++, C, Java, Python, JavaScript
- **Frontend:** HTML, CSS, React, Tailwind CSS
- **Backend:** Node.js, Express.js
- **Cloud/DevOps:** AWS, Azure, Google Cloud, Jenkins
- **Data Science/ML:** TensorFlow, PyTorch
- **Databases:** MySQL
- **Tools:** Git, VS Code, PyCharm, LaTeX
- **Systems:** Ubuntu, Linux, Windows, Maven, Gradle

## PROJECTS

### Geo-Agri-Analyst

*PyTorch, React.JS, Python, Kaggle, FastAPI, Hugging Face*

Geo-Agri Analyst is an end-to-end deep learning pipeline that enhances low-resolution satellite imagery using custom Super-Resolution GANs to train high-accuracy land-use classifiers with minimal labeling via Active Learning strategies. It features a deployable web application that fetches live Sentinel-2 data to provide real-time agricultural insights and land classification.

### Portfolio Website

*React.js, Tailwind CSS, GitHub Pages*

Designed and deployed a personal portfolio featuring responsive layouts and reusable components. Showcases projects, certifications, and contact details.

### Polygon Color Filling using UNet

*PyTorch, Kaggle*

Developed a UNet-based deep learning model to fill polygon shapes with specified colors from text input. Integrated custom dataset loading, model training, and evaluation with Weights & Biases tracking.

## CERTIFICATIONS

- Deep Learning – IIT Ropar [NPTEL]
- UiPath: Variables, Constants, and Arguments in Studio
- UiPath: Introduction to Automation
- UiPath: Build Your First Process
- Robotic Process Automation (RPA)
- Power BI and Data Visualization Skill Development Program
- Data Analytics with Power BI Workshop

## EDUCATION

### B.E. in Computer Science and Engineering

2022 – 2026

Sambhram Institute of Technology, VTU

CGPA: 8.9 / 10 ( pursuing 7<sup>th</sup> Semester)

### PCMCS

2020 – 2022

MES PU College, Sirsi, Karnataka

Grade: 88%

### SSLC

2018 – 2020

Shri Kalika Bhavani EM High School, Kansur, Karnataka

Grade: 94%

## LANGUAGES

English, Kannada and Hindi