



# SATYAM KUMBHAR

M.Sc Agriculture Analytics

## EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) | Indian Institute of Remote Sensing (IIRS) | Anand Agriculture University (AAU)

CPI: 7.07

📅 July 2023 – Present 📍 Gandhinagar, Gujarat

B-Tech Agricultural Engineering (Dr. Balasaheb Sawant Konkan Krishi vidyapeeth (DBSKKV))

CPI: 7.87

📅 July 2018 – May 2022 📍 Dapoli, Maharashtra

Class 12th School (MSBSHSE)

Percentage: 82.31%

📅 2017 – 2018 📍 Dapoli, Maharashtra

Class 10th School (MSBSHSE)

Percentage: 93.20%

📅 2015 – 2016 📍 Dapoli, Maharashtra

## SKILLS

Area(s) of Interest : Data/GIS Analysis, Machine Learning, Precision Agriculture, etc.

Programming Languages : Python, SQL, R

Tools and Technologies : PostgreSQL, Power BI, Tableau, Excel, QGIS, ERDAS, ARCGIS, Google Earth Engine, OpenGrADS, Panopoly

## EXPERIENCE

Watershed Organization Trust:

📅 May 2024 - July 2024

• Worked as **GIS Analyst** on Village Vulnerability mapping using Geo-spatial Technology under the Building Resilience in Agri and Allied Sectors in Rural Maharashtra.

• **Guide:** Dr. Vijay Solanki

## PROJECTS

Change Detection of Gandhinagar For Past 30 Years :

📅 December 2023

• Developed a 30-year change detection model for Gandhinagar using spatial data and ML in Python, highlighting urban growth and environmental changes.

• **Guide:** Dr. Ranendu Ghosh

Crop Yield Prediction of Surendranagar district Using ERDAS :

📅 December 2023

• Implemented a Semiphysical Model using ERDAS for crop yield prediction, integrating spatial data analysis techniques to enhance agricultural forecasting accuracy.

• **Guide:** Mr. Rajat Saxena

Disease Detection and Classification using CNN:

📅 Feb 2024

• Developed CNN model to detect and classify diseases in potato plants, through advanced image processing and ML techniques.

• **Guide:** Dr. Kamal Pandey

Sea Surface Temperature and Wind Velocity Analysis of Tropical Cyclone Biparjoy:

📅 April 2024

• Studied the Climatology and Analogy of SST to analyze cyclonic trends in the Arabian Sea. Investigated SST variations, wind velocity patterns, and precipitation levels during the Cyclone Biparjoy period to interpret its behavior and environmental impact

• **Guide:** Dr. Sanjeev Kumar Singh

## POSITIONS OF RESPONSIBILITY

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### GIS Analyst Intern

**Watershed Organization Trust:**

📅 May 2024 – June 2024    📍 Pune, Maharashtra

### Junior Surveyor

**Survey of Watershed works in Akole, Maharashtra**

📅 June-2024    📍 Akole, Maharashtra

## INTERESTS

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- Climatology and Agrometeorology
- Precision Agriculture
- Chess, Badminton and Cricket
- Design Thinking

## ACHIEVEMENTS

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- Received certificate for Spatial Analysis with ArcGIS Pro by **ESRI, India**
- Received certificate for Application of Advanced Geospatial Technologies in Agriculture with special reference to Crop Yield Modelling and Agromet Parameter Retrieval by **Amnex**
- Received certificate for Microwave Data Processing and Applications by **Space Application Centre, ISRO**
- Received certificate for Advance Excel, Power BI and Tableau by **The Pioneer Tech**