



DEEP RABADIYA

M.Sc. Agriculture Analytics

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (M.Sc. AA)

CPI: 7.8

📅 July 2023 – Present 📍 Gandhinagar, Gujarat

Junagadh Agricultural University (B.Sc. Agriculture)

CPI: 7.836

📅 2019 – 2023 📍 Junagadh, Gujarat

Class 12th School (GHSEB)

Percentage: 69.38 %

📅 2018 – 2019 📍 Jamnagar, Gujarat

Class 10th School (GSEB)

Percentage: 81.5 %

📅 2016 – 2017 📍 Jamnagar, Gujarat

SKILLS

Area(s) of Interest : : Geo-spatial Analysis , Remote Sensing and GIS, Machine Learning

Programming Languages : Python, SQL, R

Tools and Technologies : ArcGIS, QGIS, ERDAS IMAGINE, SNAP, Envi, Google Earth Engine, PostgreSQL, Power BI, Advance Excel, SciKit-Learn, Ms-Office

EXPERIENCE

Semantic Technologies and Agritech Services Pvt Ltd :

📅 May - July 2024 📍 Pune, Maharashtra

• At Semantic Technologies and Agritech Services Pvt Ltd, I leveraged **SAR** and **optical** data to develop machine learning models for **crop health and area estimation**, enhancing agricultural productivity. This experience honed my skills in **remote sensing, GIS and agritech** solutions.

PROJECTS

Satellite Based Crop Mapping and Area Estimation:

📅 May 2024 - July 2024

• Used **SAR** and **optical** data to develop **Machine learning** and **Deep learning** models for precise crop mapping and area estimation. The work involved extensive use of software tools like **SNAP** and **ArcGIS** to process and analyze satellite imagery, enhancing the accuracy and efficiency of agricultural assessments.

• **Guide:** Mr. Ashutosh Pawar

Land Cover Change Detection(Deforestation):

📅 Oct 2023 - Dec 2023

• Implemented deforestation project in AP using Landsat satellite imagery (2000, 2010, 2022) and **Machine learning** techniques. Proficiently utilized **Erdas Imagine**, **ArcGIS**, and **QGIS** to analyze and visualize land cover changes.

• **Guide:** Dr. Ranendu Ghosh

SOIL EROSION ESTIMATION FROM SATELLITE USING GEOSPATIAL MODELING:

📅 April 2024

• Use Google Earth Engine, ArcGIS, Qgis, Advance Statistical methods.

• **Guide:** Mr. Justin George

NPK Detection and Inventory Management:

📅 Sep 2023 - Nov 2023

• Developed a **Python** project for detection of Major elements of soil and also developed a inventory management of fertilizer selling System.

• **Guide:** Dr. Amit Mankodi

POSITIONS OF RESPONSIBILITY

National Service Scheme (NSS)

During NSS, I actively participated in initiatives such as cleanliness drives, awareness campaigns, and educational programs as well as organizing a health camp in a rural village.

📅 Feb 2020

INTERESTS

- Playing Badminton
- Playing Kho-Kho
- Travelling

ACHIEVEMENTS

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