

## EDUCATION & QUALIFICATIONS

### PhD (2023-Ongoing)

**University of Delaware**  
**Geography and Spatial Sciences**

### M.Tech (2021-2023)

**Indian Institute of Remote Sensing, ISRO**

**Remote Sensing and GIS**

**Specialization:** Agriculture & Soil

**Thesis:** Tea plantation condition and stage monitoring using multisource remote sensing data

**Modules:** Photogrammetry, Remote Sensing, Digital Image Processing, Geographic Information System, Environmental Soil Science, Agri-Informatics, Land Use & Soil Resource Assessment, Agrometeorology

**Case Study:** Spatio-temporal variability of leaf area index in major forest formations of India

### B.Tech (2017-2021)

**Bidhan Chandra Krishi Viswavidyalaya**

**Agricultural Engg**

**Thesis:** Preservation of perishables by drying

**Modules:** Engineering Mathematics; Principles of Agronomy; Surveying and Levelling; Principles of Horticultural Crops and Plant protection; Soil Mechanics; Groundwater, Wells, & Pumps; Watershed Hydrology; Soil and water Conservation Engineering; Watershed planning and Management, Irrigation Systems etc.

## TRAININGS

- In-plant summer training at ICAR-National Institute of Natural Fibre Engineering & Technology (NINFET) on **post-harvest processing and value addition in jute and allied fibers**.
- In plant training-II on **Soil and Water Conservation Engineering** at Bidhan Chandra Krishi Viswavidyalaya
- **Industrial training** at Bidhan Chandra Krishi Viswavidyalaya (BCKV) (course curriculum).
- Ten weeks of **experiential learning** in Bidhan Chandra Krishi Viswavidyalaya (course curriculum).

## CERTIFICATIONS

- Participated in the online course on **“Geoinformatics for Disaster Management”** held by IIRS,ISRO
- Completed Advanced Diploma course in Information Technology Application from Kalyani Youth Computer Training Centre

## ACHIEVEMENTS

Secured **All India Rank 133** in **Graduate Aptitude Test in Engineering (GATE)** 2021 in Agricultural Engineering Discipline.

### E-Mail

mekhala@udel.edu

### Skills & Expertise Software & IDE

Jupyter Notebook,  
Google Colab,  
PyCharm, Erdas  
Imagine, ArcGIS,  
QGIS, ENVI,  
Google Earth  
Engine,  
SNAP,TIMESAT,  
AutoCad,  
Microsoft office

### Programing Language

Python (NumPy,  
Pandas, Scikit-learn), C,  
JavaScript

### Others

Machine Learning  
(Decision Tree,  
Random Forest,  
SVM etc)

### Soft Skills

Research,  
Teamwork,  
Adaptability,  
Communication,  
Problem solving,  
Time Management.

### Language

English, Bengali,  
Hindi