



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.TECH	IIT Kharagpur	7.18 / 10
2016	B.E.	ANNA UNIVERSITY	6.79 / 10
2012	INTERMEDIATE EXAMINATION	TAMILNADU STATE BOARD	85.12%
2010	SECONDARY SCHOOL CERTIFICATE	TAMILNADU STATE BOARD	86.2%

PROJECTS

Watershed Delineation Using QGIS

- Extract Elevation Data: Use Google Earth Pro to gather information about Hogenakkal's location and acquire elevation data from satellite.
- Generate a Digital Elevation Model (DEM) in QGIS or ArcGIS from the acquired elevation data and Utilize QGIS or ArcGIS tools to delineate watersheds based on the DEM.
- Calculate Strahler orders for streams using appropriate tools in QGIS or ArcGIS
- Create a channel network based on Strahler orders for better visualization and analysis in QGIS or ArcGIS

Assessing the Impact of Meteorological Drought on Hydrological and Agricultural Drought (MTP)

- Assess meteorological drought using indices like the SPI to quantify precipitation deficits over specific time scales.
- Utilize NDVI to monitor changes in vegetation health and growth, providing insights into the impacts of meteorological drought on agricultural productivity.
- SWI to assess reductions in surface water and groundwater availability, linking meteorological drought to hydrological impacts.

INTERNSHIPS

Watershed Management with Geospatial Data Analysis

- Demonstrated competence in handling remote sensing data using QGIS, including raster and vector analysis techniques.
- Acquired expertise in processing and interpreting geospatial data to support watershed management activities.
- Proactively sought out new knowledge and techniques, reflecting a determined attitude to continually expand skills and adapt to evolving technologies.

SKILLS AND EXPERTISE

- **Programming Language:** Python **Softwares:** QGIS, ArcGIS, ENVI, Google Earth Pro, Microsoft Excel
- **Technical skills:** Machine Learning, Statistics and Math
- **Soft skills:** Leadership, Written and oral communication, Presentation skills, Team Player, Critical thinking

CERTIFICATIONS

Introductory Remote sensing and GIS with QGIS

- Learned Georeferencing, Digitization, and other tasks of image processing systems through **QGIS** and **Google Earth Pro**

Complete Python Developer in 2023: Zero to Mastery by Udemy

- Learned Object Oriented Programming, Function Programming, Machine Learning with Python, Data Science - Analyze and Visualize Data

COURSEWORK INFORMATION

- Satellite Remote Sensing | Data Analytics Lab | Emotional Intelligence | Computational Methods | Design Lab | Carbon Cycle and Global Climate Change | Tectonics and Fluvial Dynamics | Science of Happiness and well being

AWARDS AND ACHIEVEMENTS

- Secured **97.44 Percentile** in GATE (CE) 2019

EXTRA CURRICULAR ACTIVITIES

- **Cycling enthusiast**- Occasionally I do long cycling, and recently I did 210 km cycling from IIT Kharagpur to Digha Beach up and down.
- **Physical training**-discipline in gym going and swimming and occasional running.
- Playing and watching cricket.

POSITIONS OF RESPONSIBILITY

Maintenance Secretary II LBS Hall of Residence II IIT Kharagpur II

- supervised scheduling, ordering, and inventorying parts for various products and this includes calling vendors, contacting the manufacturer, and receiving parts.