ACADEMIC AND RESEARCH PROFILE

SREEDARH T M -Location (Kanhangad, Kerala, India)
Remote sensing | Satellite Image Processing
PhD Aspirant in GIS & RS

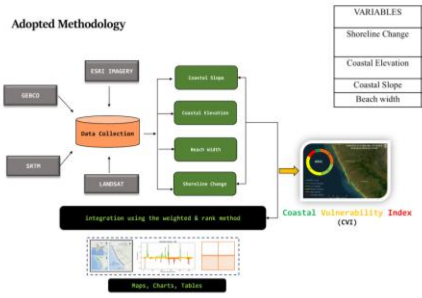
B.Sc. Geography
Kannur University

M.Sc. Geography
Mangalore University
- Academic Project -*Coastal Vulnerability Assessment of Kasaragod and Kannur: Using Geospatial Techniques*

M.Tech. Geoinformatics
Bharathidasan University
- Academic Project - *Landslide susceptibility modeling using bivariate analysis and machine learning techniques in Kodaikanal and its environ: a multi-parameter GIS approach (M. Tech – Mini Project)*

6 Months project/internship
NRSC ISRO
- *Burned Area Extraction Using AI and ML (Deep Learning)* (M. Tech -Major Project)

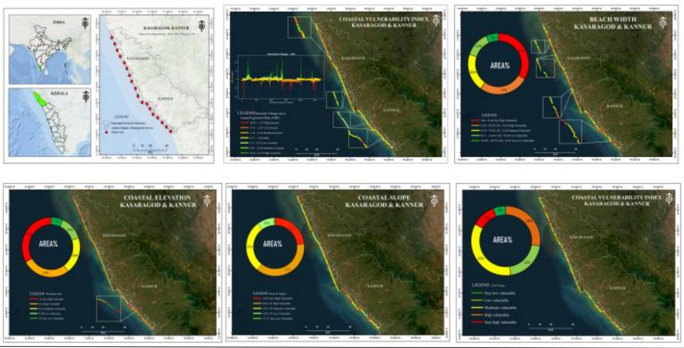
M.Sc. Project - *Coastal Vulnerability Assessment of Kasaragod and Kannur: Using Geospatial Techniques*



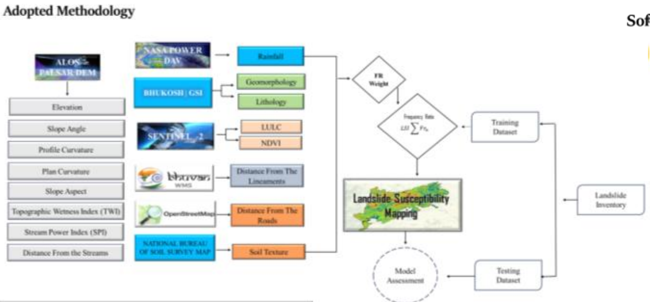
VARIABLES	SENSSOR/SATELLITE	TIME PERIOD	SOURCE
Shoreline Change	TM, ETM+, OLI, TIRS	1990, 2000 2013, 2023	USGS Earth Explorer
Coastal Elevation	SRTM	-------	USGS Earth Explorer
Coastal Slope	--	-------	GEBCO
Beach width	ESRI Imagery	-------	Arc GIS

Software's And tools used

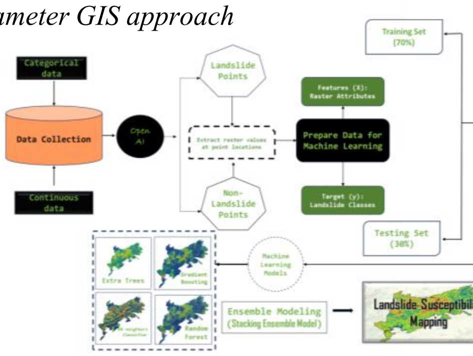
"LRR, linear regression rate, which is most commonly used analysis long term shoreline change"

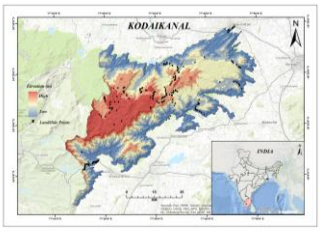


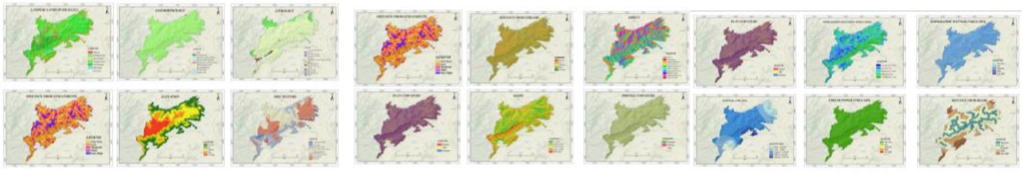
M. Tech – Mini Project - *Landslide susceptibility modeling using bivariate analysis and machine learning techniques in Kodaikanal and its environ: a multi-parameter GIS approach*



Software and tools used







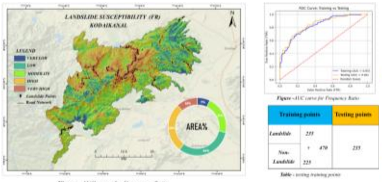
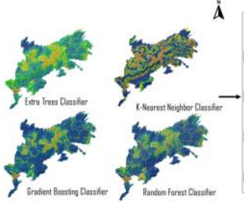
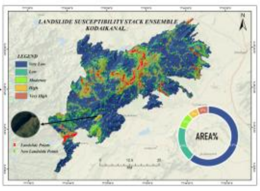


Figure - AUC curve for Frequency Ratio

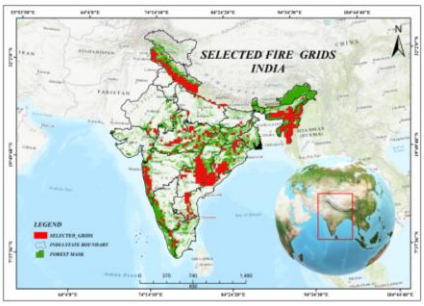
Table - testing training points

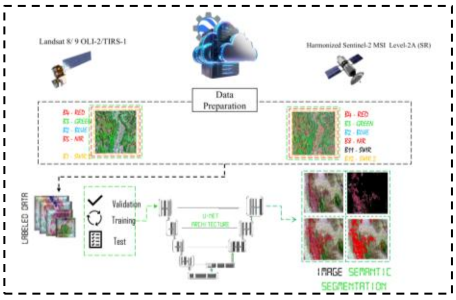




Susceptibility Zone	No. Of Testing Landslide	Percentage Of Testing Landslide	Area Percentage
Very Low	0	0.00	7.44
Low	4	1.70	21.23
Moderate	38	16.17	32.03
High	55	23.40	27.32
Very High	138	58.72	11.98

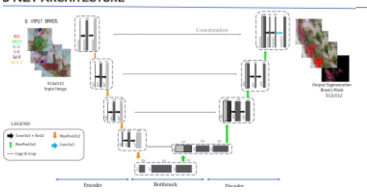
M. Tech – Major Project - BURNED AREA EXTRACTION USING AI AND ML (deep learning)



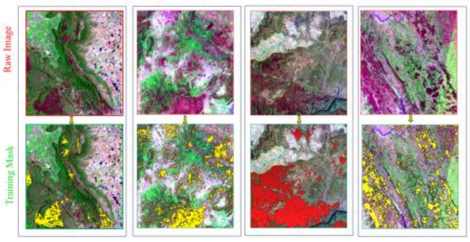


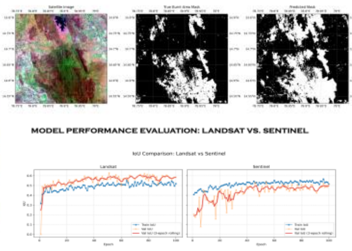
Software and tools used

U NET ARCHITECTURE

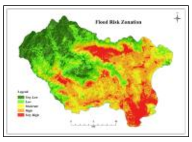


TRAINING MASKS (LABELED DATA)

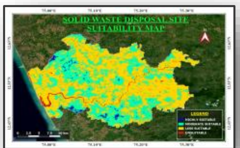




Additional Works



Book Chapter Co-Author
Flood analysis of the *Manjalar Watershed*



Solid waste site suitability in *Kasaragod*

Professional Activities & Achievements

- Invited as a Resource Person at Kannur University, Department of Geography
- Presented papers at Two International Conferences
- Attended Two Academic Workshops