FACULTY PROFILE FORMAT (Format 3)		
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Designation	:	Assistant Professor
Qualification	:	M.E, (Ph.D), AICTE QIP 'Machine Learning'
Teaching Experience	:	10 years 3 Months
Area of Specialization	:	Communication Engineering Remote Sensing, Satellite Image processing
Subjects Handled	:	Digital Image Processing , Advanced Digital Image Processing, Pattern Recognition, Pattern Recognition and Machine Learning, Communication Theory, Digital Electronics, Circuit Theory
Books Published	:	-
Journals Published	:	1. Palanivel, E., & Selvan, S. (2024). Unsupervised Multispectral Gaussian Mixture Model-Based Framework for Road Extraction. *Journal of the Indian Society of Remote Sensing*, 53, 373-388 2. Palanivel, Elaveni, and Shirley Selvan. "Integrated mixture model and ensemble learning geographic object-based

		image analysis for road network extraction." *Journal of Spatial Science* (2023): 1-21. 3. Avudaiammal, R., Elaveni, P., Selvan, S. et *al*. "Extraction of Buildings in Urban Area for Surface Area Assessment from Satellite Imagery based on Morphological Building Index using SVM Classifier". *Journal of the Indian Society of Remote Sensing* 48, 1325–1344 (2020). https://doi.org/10.1007/s12524-020-01161-0. 4. Dr. R. Avudaiammal, P. Elaveni, P.S Nancy., S.Pavithra, "Indices Based Land Use Classification Using Svm" Journal of Critical Reviews. 2020; Issue-19: 165-171 doi: 10.31838/jcr.07.19.16. 5. J.Sowmya, and P.Elaveni, "Image De-noising using BM3D-Sparse Representation on 2D images" International Journal of Advanced Research Trends in Engineering and Technology,Vol. 4, Special Issue 10, March 2017.
Conference /Workshop Attended	:	**CONFERENCES** 1. P.Elaveni and N.Venkateswaran, "A Novel Algorithm for the Classification of High Dimensional Hyperspectral Data", International Conference on Computational Systems in Engineering and Technology-2014. 2. P.Elaveni and N.Venkateswaran, "Kernel Based Svm Classification Of Hyperspectral Images", International Conference on Electrical, Communication & Computing, 2014. 3. P.Elaveni and N.Venkateswaran, "Hyperspectral Image Feature Extraction and Classification Using KPCA-SVM and ICA-SVM "*in proc. NCCCSP 2014* **WORKSHOPS** **1**. AICTE Sponsored QIP PG Certification in "Machine Learning" from IISC Bangalore, July-Dec 2024.

		2. IIT Kanpur Advanced Career School for PYTHON based DataScience, Machine Learning and Deep Learning from 22nd January to 25th February 2022. 3. ATAL Academy FDP on "Diverse Applications of Research Paradigms in AI" during Decemeber 2022 4. International Faculty Development Program on " Exploring the nuances of Deep Learning for Research Applications", conducted by Karunya University, from 13th to 17th July 2020. 5. Virtual National Workshop on Research Scopes in Remote Sensing (June 2020) conducted by St.Joseph's College of Engineering. 6. Training on "Bhuvan Overview" conducted by National Remote Sensing Centre, Hyderabad from October 29 to 31, 2019.
Patent Details	:	1. An IOT based Cattle Monitoring System, 2022. (Published) 2. Integration of Memory Reliant Learning Techniques for comprehensive evaluation and forecasting of Air Quality in India, April 2024. (Published) 3. Edge Computing Platforms for Low Latency IOT Applications, Oct 2024. (Published)
Funded Project Details		-