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"PREDICTING SOCIO-ECONOMIC STATUS FROM SATELLITE IMAGERY USING ML"

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Abstract.

Traditional methods of estimating Socio-Economic Survey (SES), such as surveys or census data, can be time consuming and expensive. Governments and organizations need a cost- effective and efficient approach to identify areas with low SES to allocate resources and plan policies for their upliftment. Predicting Socio-Economic Status from Satellite Imagery using ML Algorithm CNN is a more advanced and efficient method of predicting socio- economic status than traditional statistical methods. pliftment. Convolution neural networks are deep learning algorithms that are very powerful for the analysis of images. CNN is a powerful algorithm for image processing. The CNN can analyze new satellite images to predict SES by identifying and interpreting these learned visual patterns, providing a powerful tool for socio- economic analysis and planning.

Keywords: Socio-Economic Survey, Satellite Imagery, visual patterns.

Introduction.

Socio-economic status (SES) is a crucial factor that affects various aspects of people's lives, including education, health, and employment opportunities. Governments and other organizations need to identify areas with low SES to allocate resources and plan policies to uplift them. Traditional methods of estimating SES, such as surveys or census data, can be time consuming and expensive. Researchers have started exploring the use of satellite imagery to predict SES. Satellite imagery provides a cost-effective and efficient alternative to collecting socio-economic data on the ground. The images can capture various features of the landscape,

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