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Estimation of reproduction number and non stationary spectral analysis of Dengue epidemic

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Highlights

- Transient analysis of the Dengue epidemic around the post monsoon outbreaks in Ahmedabad, India
- Compartmental model of Dengue spread and estimation of reproduction number using initial growth rate and its uncertainties through Monte Carlo methods.
- Analysis of the non-stationary behavior of Dengue time series and rainfall through Wavelet power spectrum
- Correlation between Dengue and climatic variables like rainfall and temperature through Wavelet coherence analysis and inference of long term trend.

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