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metrics and retail demand among others time series analysis consists of techniques for examining and analyzing time series data in order to bring out eloquent insights from the data it assists in acquiring an understanding of the underlying forces in the data points which are leading to a particular trend this further helps in predicting future data points time series analysis is a powerful statistical method that examines data points collected at regular intervals to uncover underlying patterns and trends this technique is highly relevant across various industries as it enables informed decision making and accurate forecasting based on historical data this tutorial will focus mainly on the data wrangling and visualization aspects of time series analysis working with a time series of energy data we ll see how techniques such as time based indexing resampling and rolling windows can help us explore variations in electricity demand and renewable energy supply over time selva prabhakaran 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