



* ARIMA model -> Auto Regression ve Integrated Moving Armag - actass of statistical model for analyzing and forecasting series data > Data shows evidence of non-stationally > A random variable that is time series of stationary if its statistical properties are all constant over time > A stationary series has no trend its your ations around its mean have a constant amplitude, and it wiggles in a consistent fashion The latter condition means that its auto correlation remain constant over time : Power spectrum remains constant and combination of signal and noise - An acima model can be viewed as a "filter" that hies to Separate the signal from the noise, and the signal is then extra polated Ato the future to obtain forecasts swhat is ARIMA forecasting egn for a stationary time suies? -> A linear equation in which the predictors consists of Lags of the dependent variable and lor lags of the forecast a constant Predicted value of Y = a weighted sum of one or more recent AR > Auto regressive - uses the dependent relationship blu an observation and some number of lagged observation PJ Lagorder I -> Integrated -> The use of differencing of raw observations sub ontob from another ob morder to make degree of time pravious time step in order to make differits sme series stationary MA > moving average > uses the dependency blw an observation and residual enois from a shoving average model applied to lagged observation order of moving average











