









SARIMAX Results							
Dep. Variable Model: Date: Time: Sample:	SARII	MAX(2, 1, 2)	Fri, 14 A <sub> </sub> 14 12-1	1], 24) Log			2436 -3489.670 6991.341 7026.000 7003.954
	coef	std err	Z	P> z	======== [0.025 	====== 0.975] 	
ar.L1	1.0121	0.056	18.127	0.000	0.903	1.122	
ar.L2	-0.1210	0.037	-3.295	0.001	-0.193	-0.049	
ma.L1	-1.6431	0.178	-9.224	0.000	-1.992	-1.294	
ma.L2	0.6431	0.119	5.425	0.000	0.411	0.876	
ma.S.L24	-0.9677	0.008	-125.194	0.000	-0.983	-0.953	
sigma2	1.0662	0.192	5.548	0.000	0.690	1.443	
======================================			0.06 0.81	 Jarque-Bera (JB): Prob(JB):		======== 1956.55 0.00	
Heteroskedasticity (H):			0.75	Skew:		1.31	
Prob(H) (two-sided):			0.00	Kurtosis:			
========	-siueu): 		=======	========	========	6.59 =======	

## **Data Set Source:**

https://archive.ics.uci.edu/ml/datasets/Individual+household+electric+power+consumption

## **Data Set Information:**

This archive contains 2075259 measurements gathered in a house located in Sceaux (7km of Paris, France) between December 2006 and November 2010 (47 months).

Notes:

- 1.(global\_active\_power\*1000/60 sub\_metering\_1 sub\_metering\_2 sub\_metering\_3) represents the active energy consumed every minute (in watt hour) in the household by electrical equipment not measured in sub-meterings 1, 2 and 3.
- 2.The dataset contains some missing values in the measurements (nearly 1,25% of the rows). All calendar timestamps are present in the dataset but for some timestamps, the measurement values are missing: a missing value is represented by the absence of value between two consecutive semi-colon attribute separators. For instance, the dataset shows missing values on April 28, 2007.

## **Attribute Information:**

- 1.date: Date in format dd/mm/yyyy 2.time: time in format hh:mm:ss
- 3.global\_active\_power: household global minute-averaged active power (in kilowatt)
- 4.global reactive power: household global minute-averaged reactive power (in kilowatt)
- 5.voltage: minute-averaged voltage (in volt)
- 6.global intensity: household global minute-averaged current intensity (in ampere)
- 7.sub\_metering\_1: energy sub-metering No. 1 (in watt-hour of active energy). It corresponds to the kitchen, containing mainly a dishwasher, an oven and a microwave (hot plates are not electric but gas powered).
- 8.sub\_metering\_2: energy sub-metering No. 2 (in watt-hour of active energy). It corresponds to the laundry room, containing a washing-machine, a tumble-drier, a refrigerator and a light.
- 9.sub\_metering\_3: energy sub-metering No. 3 (in watt-hour of active energy). It corresponds to an electric water-heater and an air-conditioner.

## **About The Data Set:**

The dataset was collected using Internet of Things (IoT) devices. Specifically, it was collected from a single house located in Sceaux, France, between December 2006 and November 2010 using a set of sensors that measured various electrical quantities (voltage, current, power, etc.) at a frequency of 1 minute.