

Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]
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IPython 7.2.0 -- An enhanced Interactive Python.

Restarting kernel...

In [1]: runfile('E:/Inflation/DataPreProcessing.py', wdir='E:/Inflation')

Missing Value Ratio Unnamed: 0 0.0

date	0.0
bank_prime_loan_rate	0.0
owned_housing_units	0.0
monetary_base	0.0
currency_circulation	0.0
federal_minimum_wage	0.0
m1_money_stock	0.0
m2_money_stock	0.0
m2_own_rate	0.0
cpi_core_urban_consumers	0.0
cpi_core_urban_consumers_exclude_food_energy	0.0
employees_payroll	0.0
consumer_credit	0.0
unemployment_rate	0.0
savings_deposits	0.0

dtype: float64

Variance Unnamed: 0 4.326000e+04

bank_prime_loan_rate	1.096179e+01
owned_housing_units	1.498089e+03
monetary_base	1.281179e+12
currency_circulation	1.965753e+05
federal_minimum_wage	4.200673e+00
m1_money_stock	8.007271e+05
m2_money_stock	1.438034e+07
m2_own_rate	4.731724e+00
cpi_core_urban_consumers	5.372232e+03
cpi_core_urban_consumers_exclude_food_energy	5.649224e+03
employees_payroll	8.611919e+08
consumer_credit	1.288229e+06
unemployment_rate	2.462239e+00
savings_deposits	6.365387e+06

dtype: float64

	bank_prime_loan_rate	owned_housing_units	\
bank_prime_loan_rate	1.000000	0.122705	
owned_housing_units	0.122705	1.000000	
monetary_base	-0.468976	-0.396178	
currency_circulation	-0.440266	-0.336513	
federal_minimum_wage	-0.267913	-0.366701	
m1_money_stock	-0.402523	-0.339376	
m2_money_stock	-0.416241	-0.353776	
m2_own_rate	0.920386	0.209024	
employees_payroll	-0.160488	-0.213394	
consumer_credit	-0.426225	-0.321226	

unemployment_rate	0.056919	-0.405445
savings_deposits	-0.481774	-0.354537

	monetary_base	currency_circulation	\
bank_prime_loan_rate	-0.468976	-0.440266	
owned_housing_units	-0.396178	-0.336513	
monetary_base	1.000000	0.934321	
currency_circulation	0.934321	1.000000	
federal_minimum_wage	0.817547	0.930667	
m1_money_stock	0.950532	0.983394	
m2_money_stock	0.936485	0.996745	
m2_own_rate	-0.596055	-0.620643	
employees_payroll	0.688188	0.868143	
consumer_credit	0.891375	0.991561	
unemployment_rate	0.130747	0.088944	
savings_deposits	0.971723	0.983300	

	federal_minimum_wage	m1_money_stock	m2_money_stock	\
bank_prime_loan_rate	-0.267913	-0.402523	-0.416241	
owned_housing_units	-0.366701	-0.339376	-0.353776	
monetary_base	0.817547	0.950532	0.936485	
currency_circulation	0.930667	0.983394	0.996745	
federal_minimum_wage	1.000000	0.909598	0.941437	
m1_money_stock	0.909598	1.000000	0.985260	
m2_money_stock	0.941437	0.985260	1.000000	
m2_own_rate	-0.451667	-0.568291	-0.583746	
employees_payroll	0.957007	0.845817	0.876384	
consumer_credit	0.946343	0.958495	0.989107	
unemployment_rate	0.265830	0.086222	0.130471	
savings_deposits	0.874298	0.974822	0.982800	

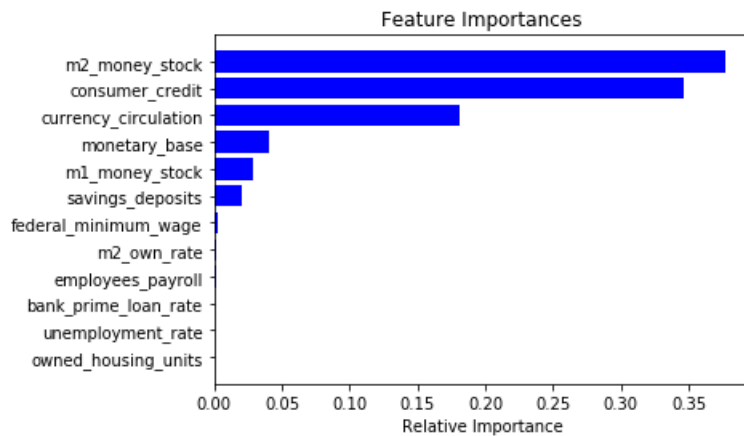
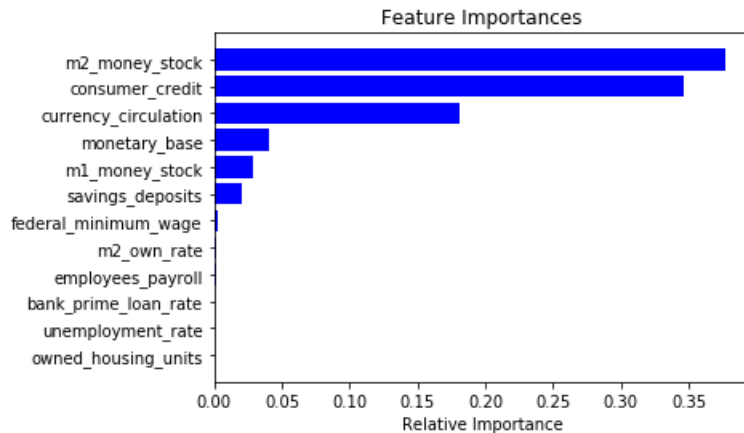
	m2_own_rate	employees_payroll	consumer_credit	\
bank_prime_loan_rate	0.920386	-0.160488	-0.426225	
owned_housing_units	0.209024	-0.213394	-0.321226	
monetary_base	-0.596055	0.688188	0.891375	
currency_circulation	-0.620643	0.868143	0.991561	
federal_minimum_wage	-0.451667	0.957007	0.946343	
m1_money_stock	-0.568291	0.845817	0.958495	
m2_money_stock	-0.583746	0.876384	0.989107	
m2_own_rate	1.000000	-0.359663	-0.612165	
employees_payroll	-0.359663	1.000000	0.902557	
consumer_credit	-0.612165	0.902557	1.000000	
unemployment_rate	0.121303	0.118676	0.090376	
savings_deposits	-0.632085	0.778400	0.960442	

	unemployment_rate	savings_deposits
bank_prime_loan_rate	0.056919	-0.481774
owned_housing_units	-0.405445	-0.354537
monetary_base	0.130747	0.971723
currency_circulation	0.088944	0.983300
federal_minimum_wage	0.265830	0.874298
m1_money_stock	0.086222	0.974822
m2_money_stock	0.130471	0.982800
m2_own_rate	0.121303	-0.632085
employees_payroll	0.118676	0.778400

consumer_credit	0.090376	0.960442
unemployment_rate	1.000000	0.104312
savings_deposits	0.104312	1.000000

C:\Users\Aerler\AppData\Local\Continuum\anaconda3\lib\site-packages\sklearn\ensemble\forest.py:246: FutureWarning: The default value of n_estimators will change from 10 in version 0.20 to 100 in 0.22.

"10 in version 0.20 to 100 in 0.22.", FutureWarning)



Num Features: 6

Selected Features: [True False False True True False False True False True True False]

Feature Ranking: [1 3 7 1 1 2 5 1 6 1 1 4]

```
(array([ 59.4642946 ,  71.96695209, 1042.49024172, 4098.32300014,
        20095.39367939, 3067.57357139, 4589.74483703, 199.49571539,
        19315.16056905, 6345.37365832,  24.14635612, 1852.75461268]),
array([4.16227059e-014, 1.24512691e-016, 5.66628111e-142, 5.78694236e-299,
        0.00000000e+000, 2.08282283e-261, 4.08474945e-314, 3.77346857e-040,
        0.00000000e+000, 0.00000000e+000, 1.10684271e-006, 4.80314952e-201]))
```

In [2]: