#### Output screenshots

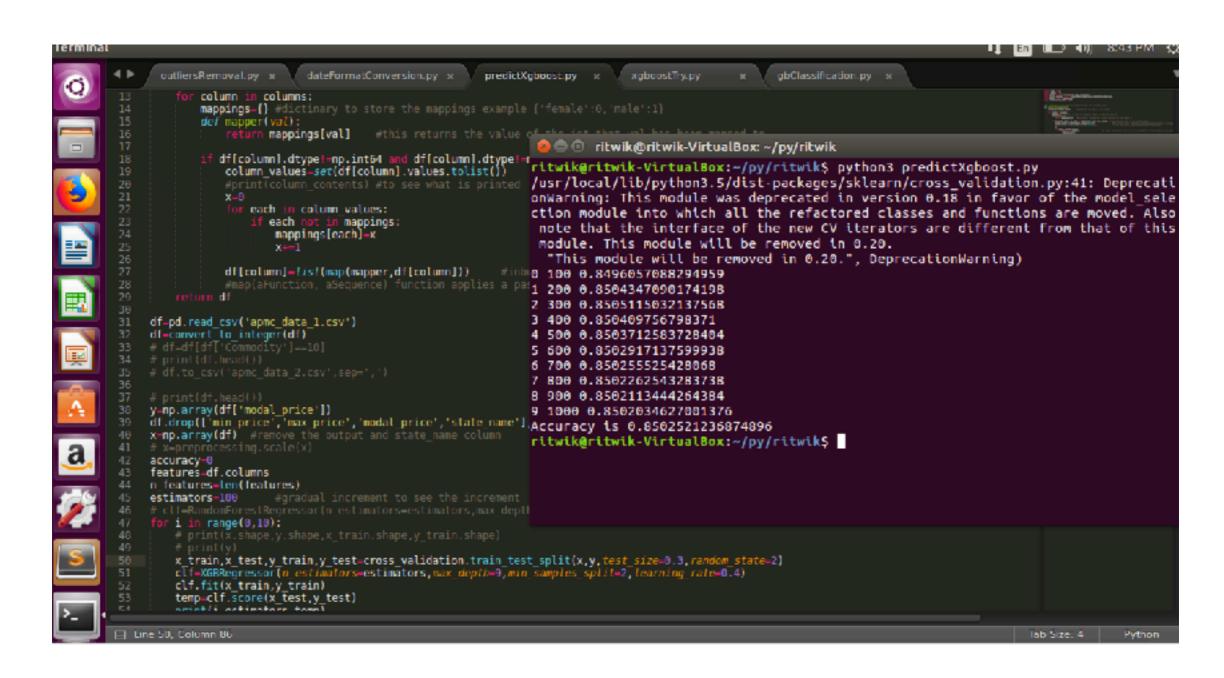
### Arima output

```
ritwik@ritwik-VirtualBox: ~/py/ritwik
                                             7.64969
       2015-07-01 00:00:00
       2015-08-01 00:00:00
                                             7.64969
       2015-09-01 00:00:00
                                             7.64969
       2015-10-01 00:00:00
                                             7.64969
       2015-11-01 00:00:00
                                             7.64969
       2015-12-01 00:00:00
                                             7.64969
       2016-01-01 00:00:00
                                             7.64969
       2016-02-01 00:00:00
                                             7.64969
       2016-03-01 00:00:00
                                             7.64969
       2016-04-01 00:00:00
                                             7.64969
       2016-05-01 00:00:00
                                             7.64969
       2016-06-01 00:00:00
                                             7.64969
       2016-08-01 00:00:00
                                             7.64969
       2016-09-01 00:00:00
                                             7.64969
       2016-10-01 00:00:00
                                             7.64969
       2016-11-01 00:00:00
                                             7.64969
                                [7.662551604934205]
                                [15.26972815831247]
                               [22.870064602841662]
       dtype: object
       2014-09-01
                     7.64969
       2014-11-01
                     7.64969
       2015-01-01
                     7.64969
       2015-02-01
                     7.64969
       2015-03-01
                     7.64969
       dtype: object
       arima log:
                   7.649692623711514
       2100.0
       arima_log:
                   7.649692623711514
       2100.0
       arima log: 7.649692623711514
       2100.0
       Final prediction(Without scaling up) are: 0
                                                          [7.662551604934205]
             [7.607176553378265]
            [7.6003364445291925]
      dtype: object
      <Final predictions(After scaling them): [2100.0, 2100.0, 2100.0]</pre>
       ritwik@ritwik-VirtualBox:~/py/ritwikS
```

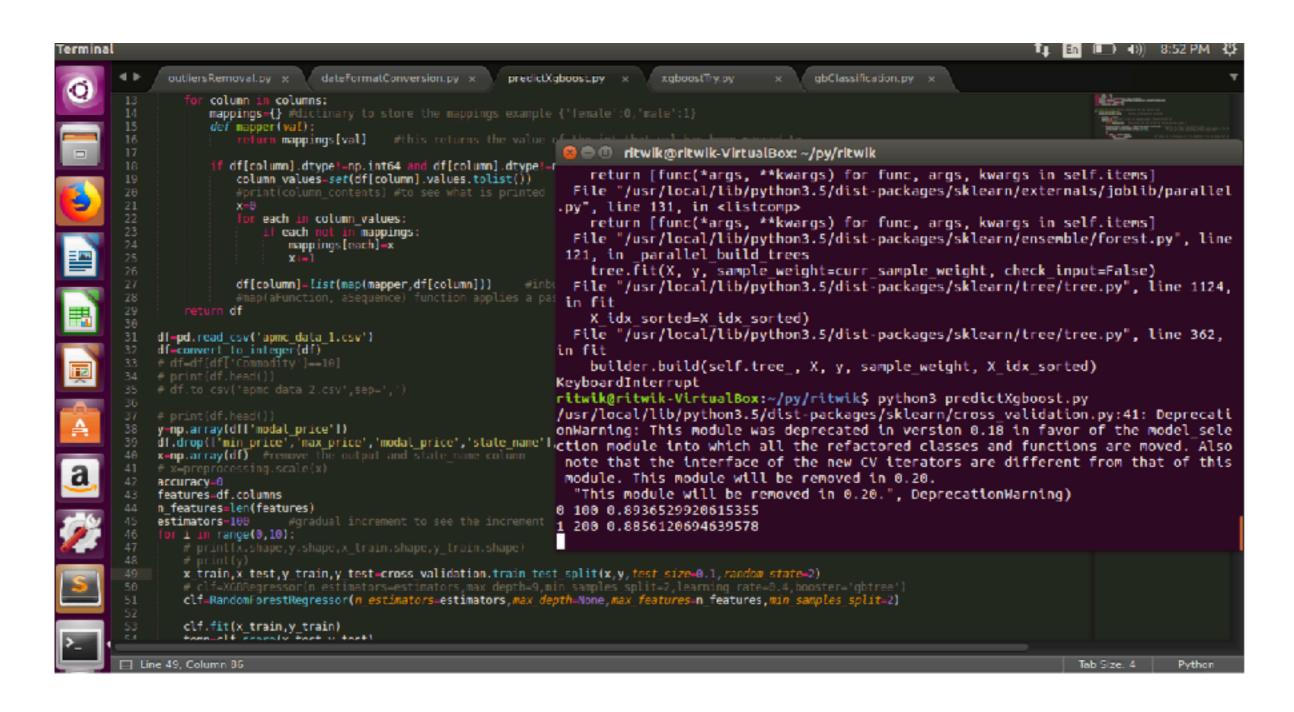
## XGBoost predict(With outliers removal)

```
ritwik@ritwik-VirtualBox: ~/py/ritwik
          ybean': 167, 'lentil': 98, 'nagali': 116, 'small gourd': 163, 'green-peas': 71, 'math (bhaji)': 107, 'nachani': 115, 'snake gourd':
         |164, 'methi (bhaji)': 110, 'oth.split pulses': 123, 'split black gram': 171, 'turmeric': 188, 'melon': 109, 'spilt pigeon pea': 169,
          'goosefoot': 64, 'dhemse': 46, 'sweet potato': 179, 'other spices': 127, 'elephant root': 48, 'shahale': 155, 'pigen-pea (bhaji)':
137, 'gulchadi': 75, 'brinjal': 21, 'wal bhaji': 189, 'bullack': 23, 'spinach': 170, 'radish': 147, 'male goat': 103, 'split lentil'
         : 173, 'potato': 143, 'lang': 95, 'betelnuts': 14, 'fodder': 54, 'ghee': 57, 'awala': 6, 'jack fruit': 84, 'garlic': 56, 'pavtta': 1
         35, 'kharbuj': 93, 'guava': 74, 'coconut': 36, 'naspatti ': 117, 'amba koy': 0, 'green chilli': 68, 'cluster bean': 35, 'arvi': 4, 'nolkol': 120, 'kagda': 88, 'water melon': 192, 'coriander ': 37, 'sarsav': 153, 'pineapple': 139, 'wheat(husked)': 193, 'fenugreek':
         51, 'soup berries': 166, 'pavata': 134, 'banana(raw)': 9, 'maize': 100, 'carrot': 27, 'harbara(pendi)': 78, 'black gram': 18, 'flow er': 53, 'shepu': 159, 'chandani': 29, 'niger-seed': 119, 'jack fruit(raw)': 85, 'farshi': 49, 'sugarcane': 177, 'custard apple': 45, 'other vegetables': 128, 'kanda pat': 90, 'hilda': 81, 'tag': 180, 'fennel': 50, 'bedana': 12, 'split gram': 172, 'batbati': 11, '
         tomato': 186, 'peer': 136, 'shewanti': 161, 'coriander (dry)': 39, 'wood apple': 195, 'wheat(unhusked)': 194, 'walvad': 191, 'ridge
gourd': 151, 'bijli': 16, 'pomegranate': 142, 'bhagar/vari': 15, 'chavli (shenga )': 31, 'pumpkin': 144, 'ambat chuka': 1, 'raddish'
: 146, 'horse gram': 82, 'hemp-seed': 80, 'cowpea': 42, 'aster': 5, 'kardai': 91, 'jambhul': 87, 'tamarind': 181, 'pigeon pea (tur)'
         : 138, 'other cereals': 124, 'onion': 121, 'mango': 105, 'ghevda': 58, 'sheep': 157, 'bitter gourd': 17, 'wal papdi': 190, 'paddy-un husked': 129, 'chikoo': 32, 'karvand': 92, 'rajgira': 148, 'maize(corn.)': 102, 'buffalo': 22, 'matki': 108, 'kand': 89, 'gram': 66, 'hemp': 79, 'maize (corn.)': 101, 'cow': 41, 'mango(raw)': 106, 'capsicum': 26, 'sunflower': 178, 'fig': 52, 'linseed': 99, 'tuljap uri': 187, 'strawberi': 175, 'chillies(red)': 33, 'guvar': 76, 'chavli (pala)': 30, 'rala': 149, 'mosambi': 112, 'pappaya (bhaji)':
         132, 'sorgum(jawar)': 165, 'mint': 111, 'goats': 63, 'ginger (dry)': 61, 'ginger (fresh)': 62, 'baru seed': 10, 'other oil seeds': 1
25, 'lemon': 97, 'papnas': 131, 'gr.nut kernels': 65, 'bajri': 7, 'jaggery': 86, 'french bean': 55, 'bullock heart': 24, 'rice(paddy
         -hus)': 150, 'cucumber': 43, 'mula shenga': 113, 'bottle gourd': 20, 'curry leaves': 44, 'ghosali(bhaji)': 60, 'cotton': 40, 'neem-s
         eed': 118, 'sugar': 176, 'male lamb': 104, 'spilt gerrn gram': 168, 'coriander ': 38, 'harbara(bhaji)': 77, 'double bee': 47, 'oran
          ge': 122, 'sesamum': 154, 'banana': 8, 'papai': 130, 'squash gourd': 174, 'shevga': 160, 'groundnut pods (wet)': 73, 'skin & bones':
          Accuracy is: 0.915211689030037
         Enter the APMC code corresponding to name to get the prediction values: 172
         Enter the commo code corresponding to name to get the prediction values: 4
          Input for prediction: [[ 172
                                                           4 2016
                                                                         12 27
          Output for prediction for future 0 month: [2969.5713]
          Input for prediction: [[ 172
                                                           4 2017
          Output for prediction for future 1 month: [2937.0383]
          Input for prediction: [[ 172
                                                           4 2017
          Output for prediction for future 2 month: [2969.5713]
          {'min_samples_split': 2, 'max_delta_step': 0, 'booster': 'gbtree', 'missing': None, 'random_state': 0, 'n_estimators': 100, 'min_chi
          ld_weight': 1, 'colsample_bylevel': 1, 'n_jobs': 1, 'subsample': 1, 'seed': None, 'colsample_bytree': 1, 'silent': True, 'reg_alpha'
          : 0, 'learning_rate': 0.5, 'max_depth': 9, 'gamma': 0, 'reg_lambda': 1, 'objective': 'reg:linear', 'scale pos weight': 1, 'base scor
         (e': 0.5, 'nthread': None}
           ttwik@ritwik-VirtualBox:~/py/ritwikS
```

#### xgboost(Without ouliers)



# Random forest regressor (With outliers removal)



## Random forest regressor (Without outliers removal)

