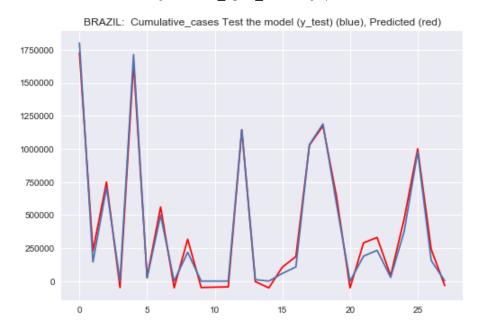
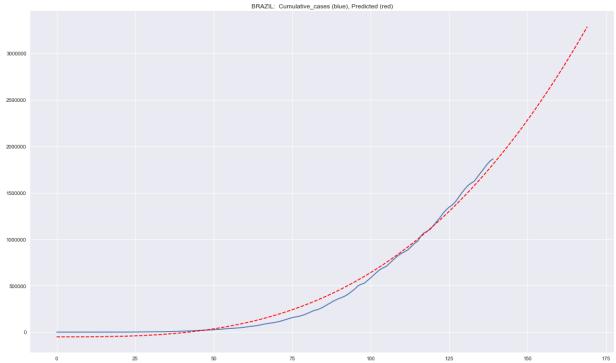
[Parallel(n_jobs=-1)]: Done 30 out of 30 | elapsed: 6.0min finished /Users/annmcnamara/opt/anaconda3/envs/pydata/lib/python3.7/site-packages/sklearn/utils/validation.py:760: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n_samples,), for examp le using ravel().

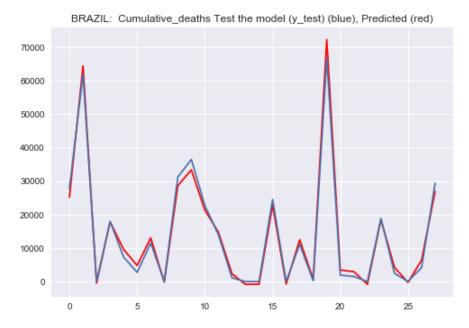
y = column or 1d(y, warn=True)

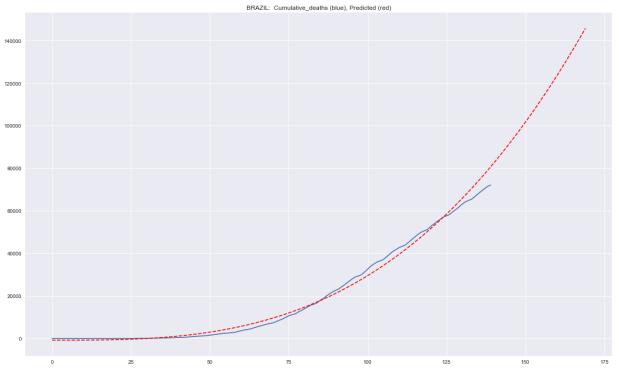
/Users/annmcnamara/opt/anaconda3/envs/pydata/lib/python3.7/site-packages/ipykerne l_launcher.py:50: RuntimeWarning: More than 20 figures have been opened. Figures created through the pyplot interface (`matplotlib.pyplot.figure`) are retained un til explicitly closed and may consume too much memory. (To control this warning, see the rcParam `figure.max_open_warning`).

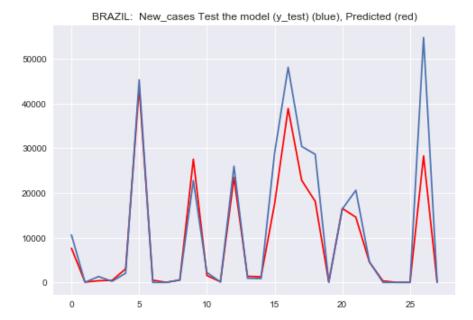
/Users/annmcnamara/opt/anaconda3/envs/pydata/lib/python3.7/site-packages/ipykerne l_launcher.py:58: RuntimeWarning: More than 20 figures have been opened. Figures created through the pyplot interface (`matplotlib.pyplot.figure`) are retained un til explicitly closed and may consume too much memory. (To control this warning, see the rcParam `figure.max_open_warning`).

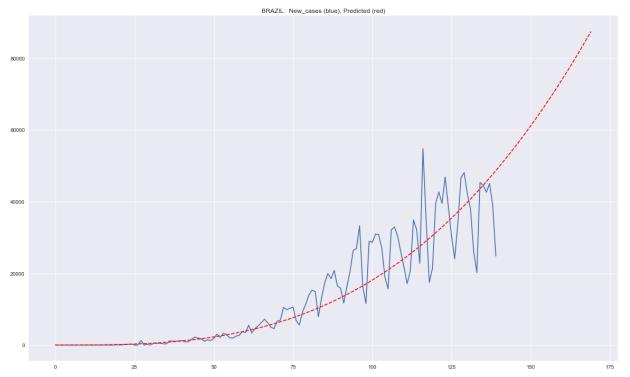


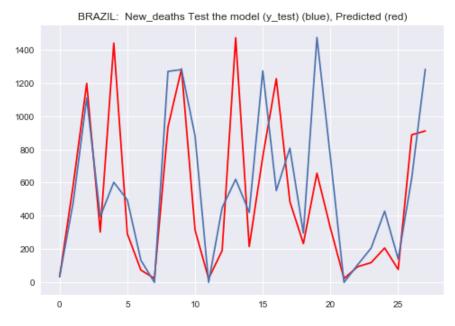


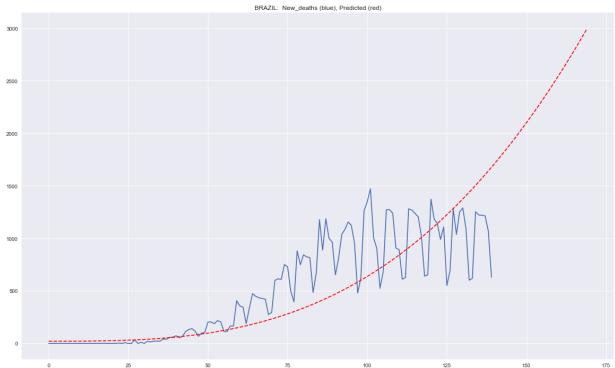


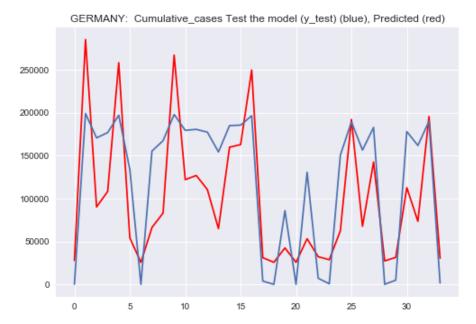


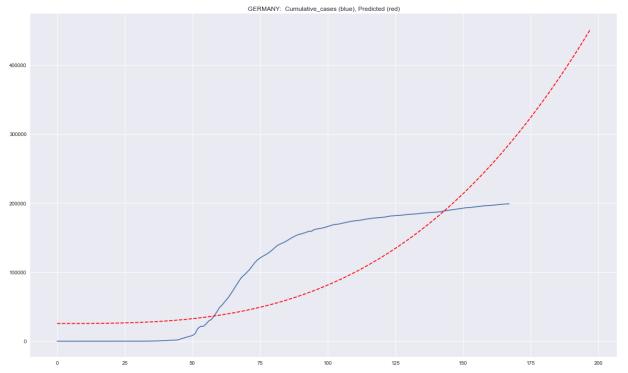


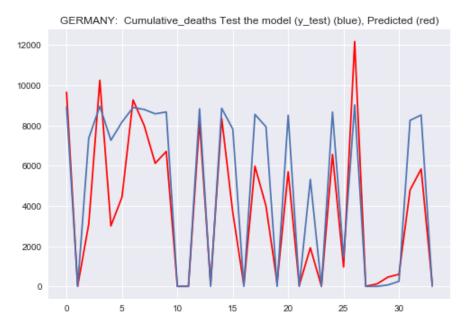


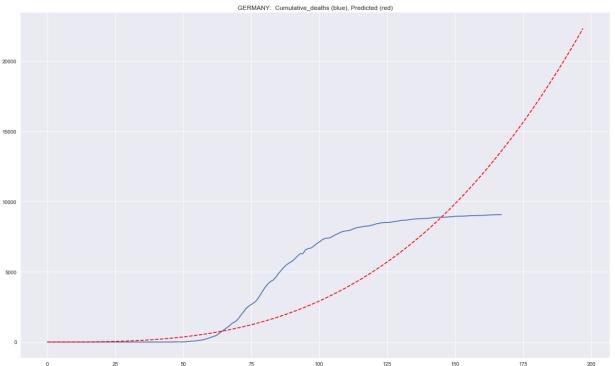


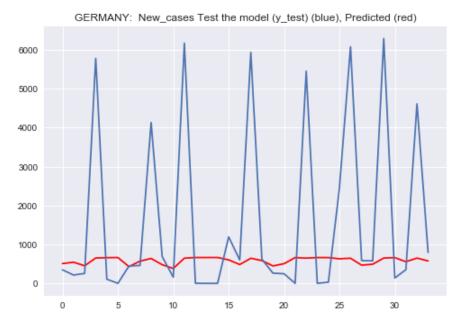


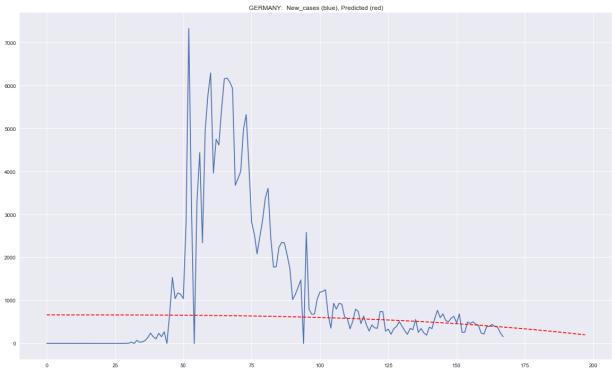


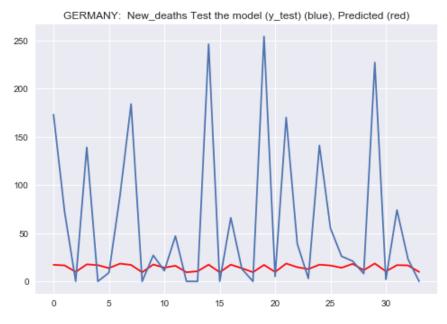


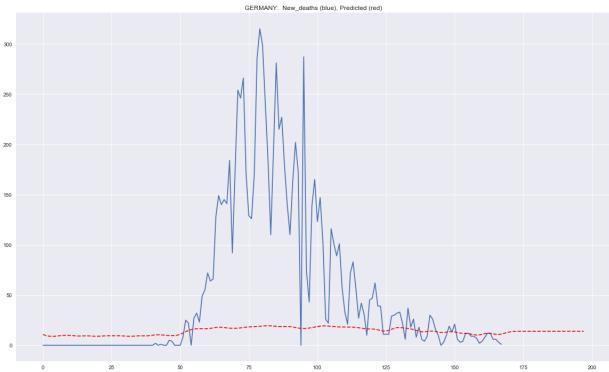


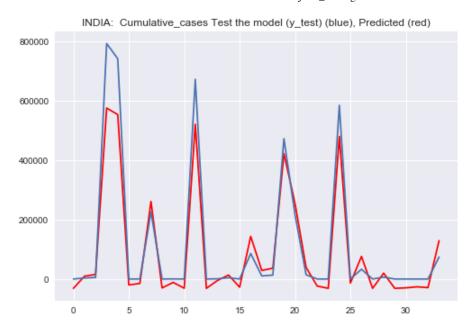


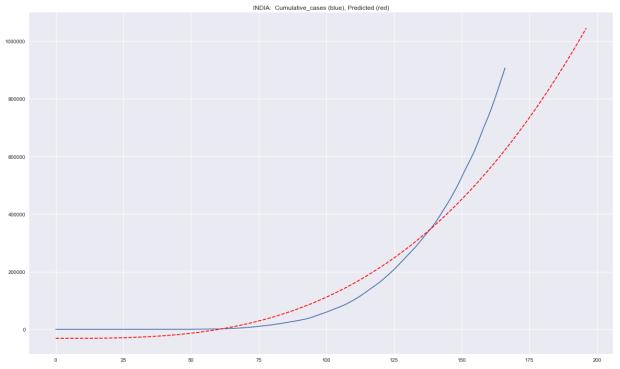


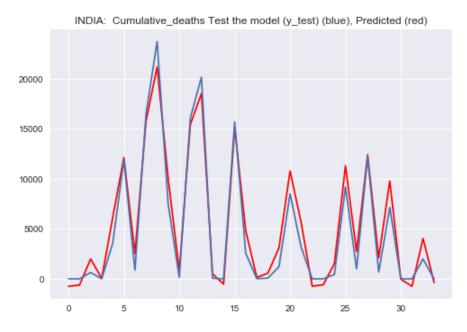


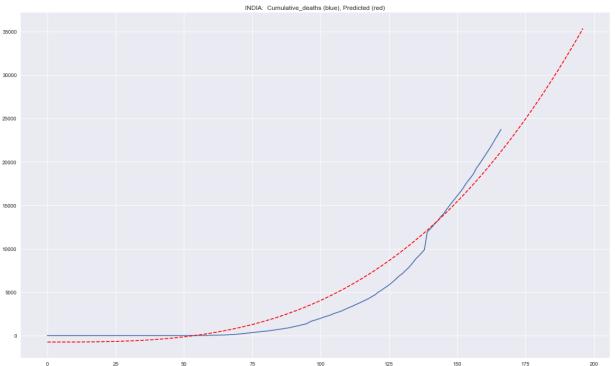


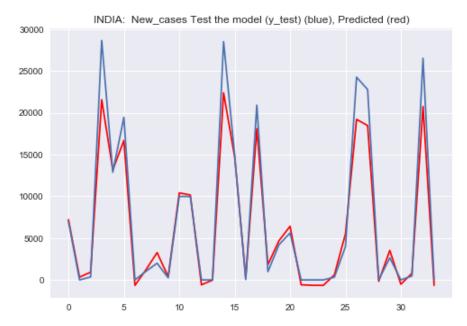


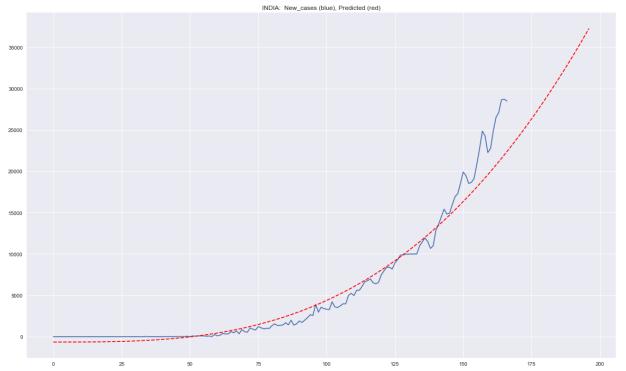


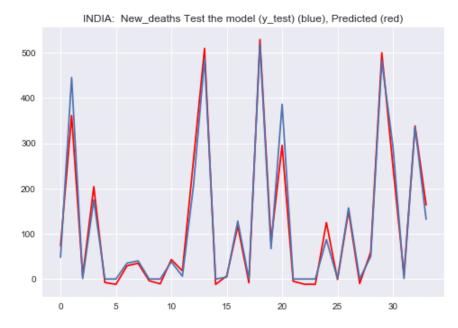


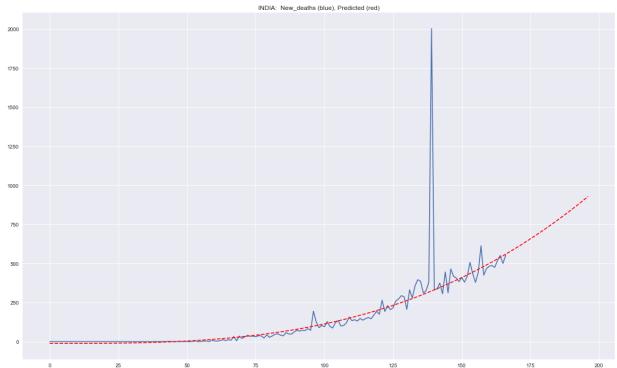


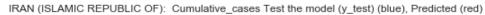






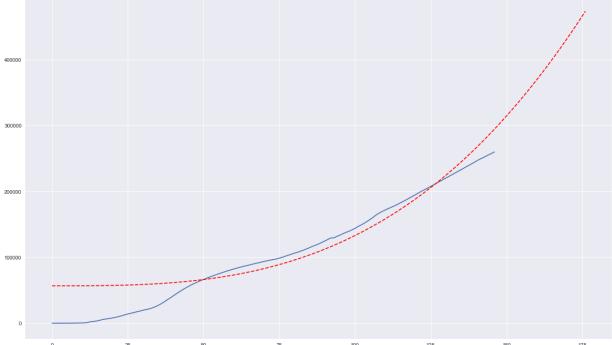


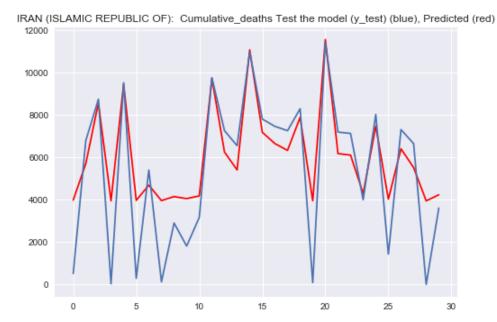


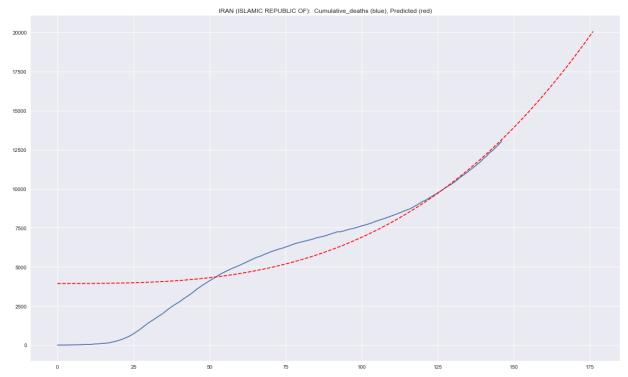




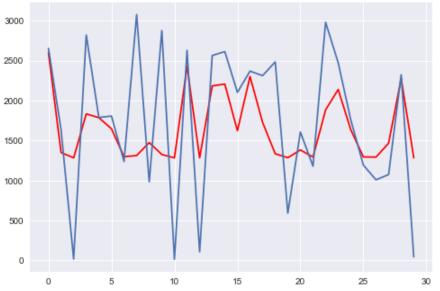


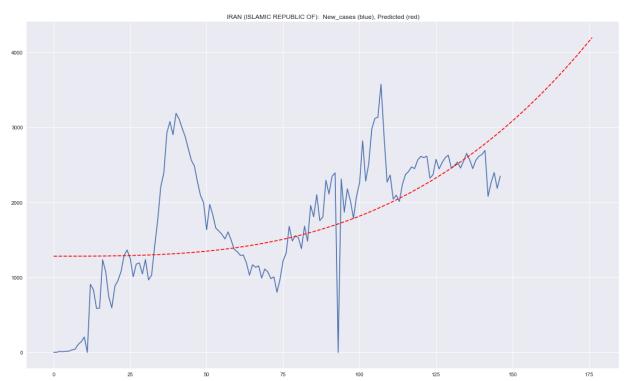


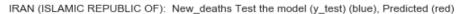


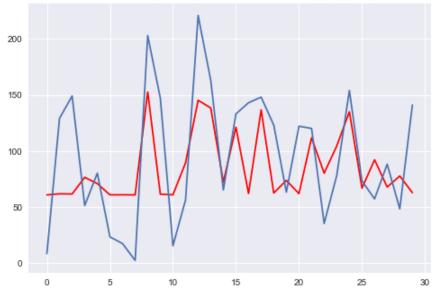


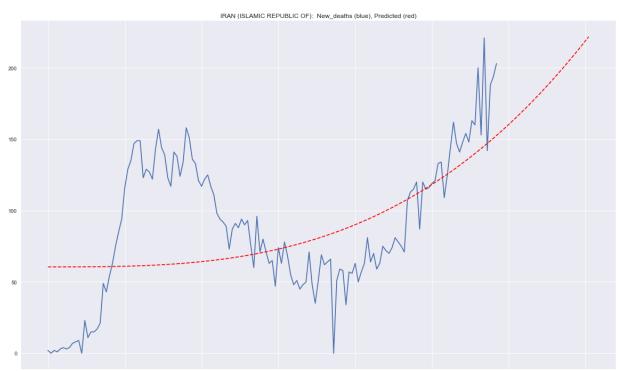




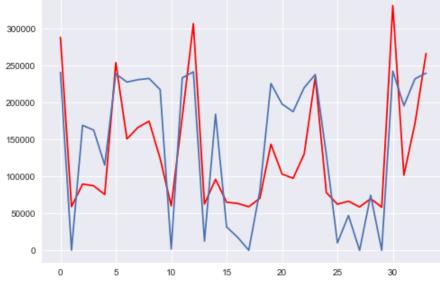


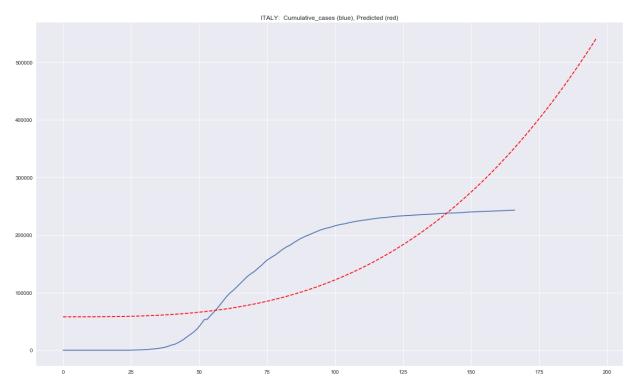


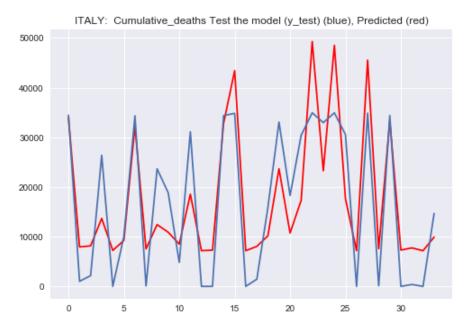


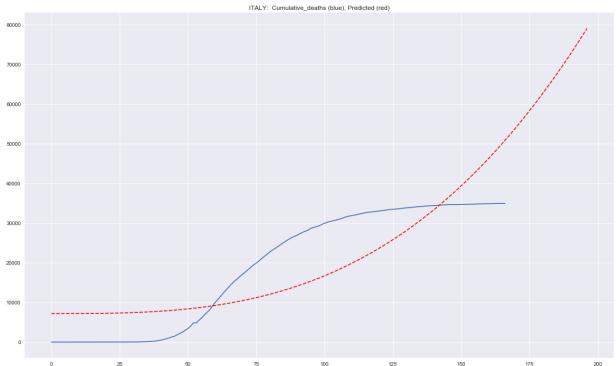


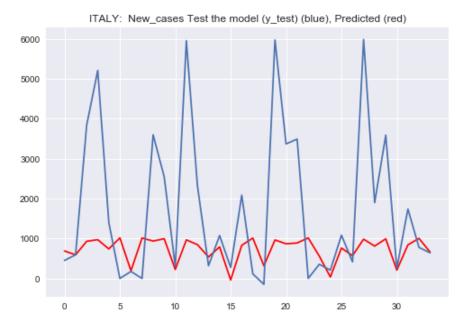


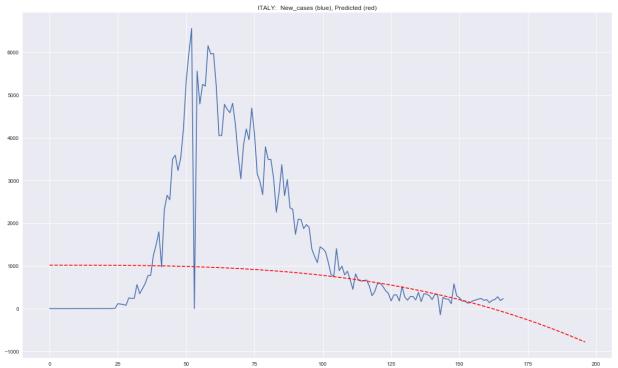




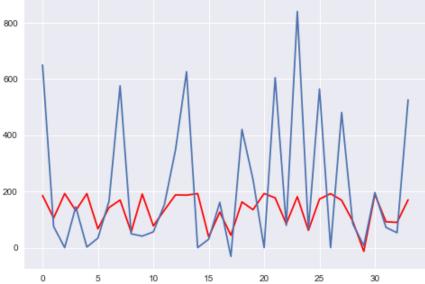


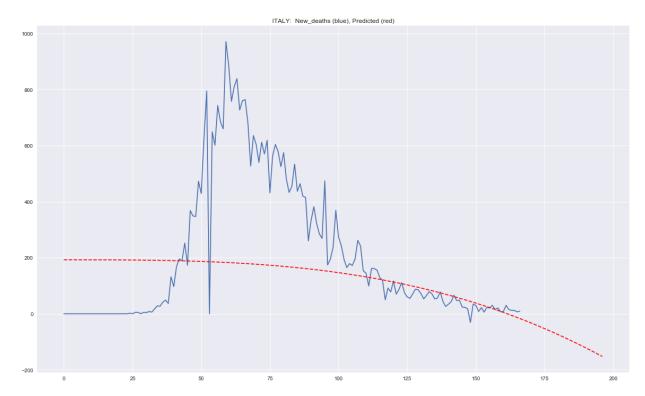


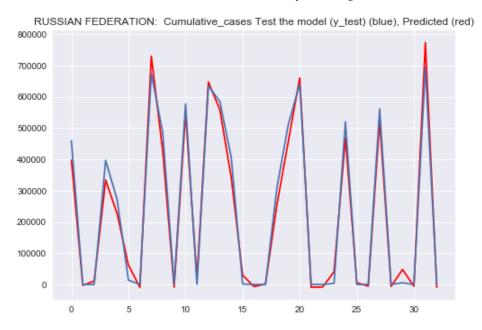


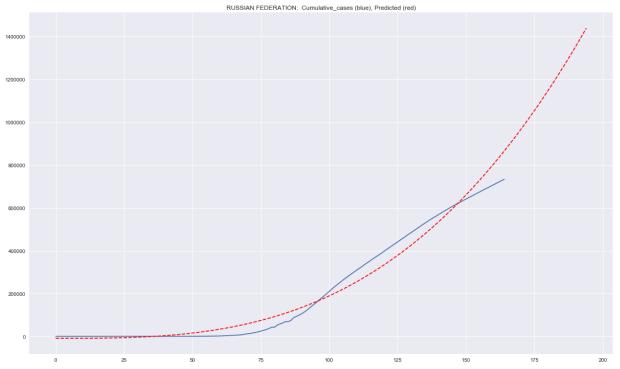


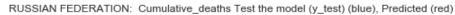


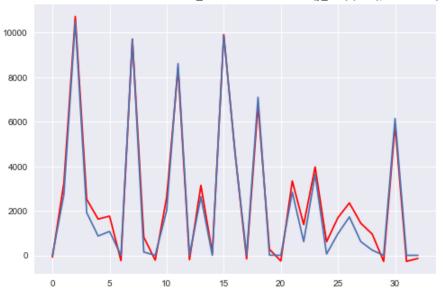


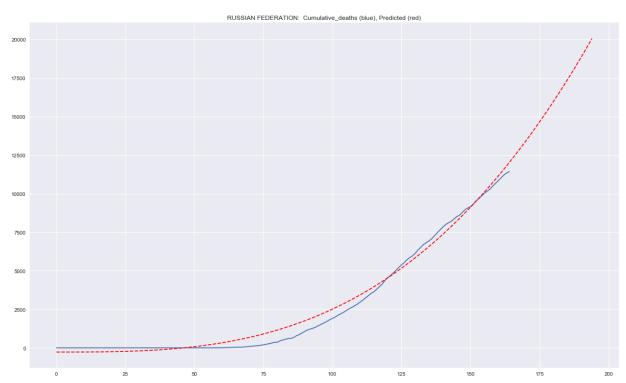


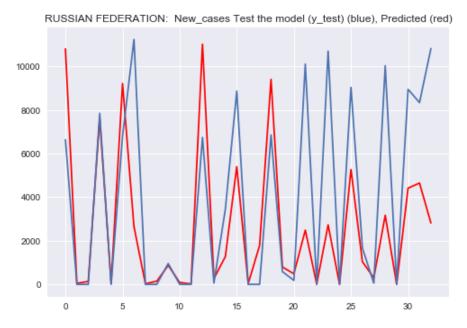


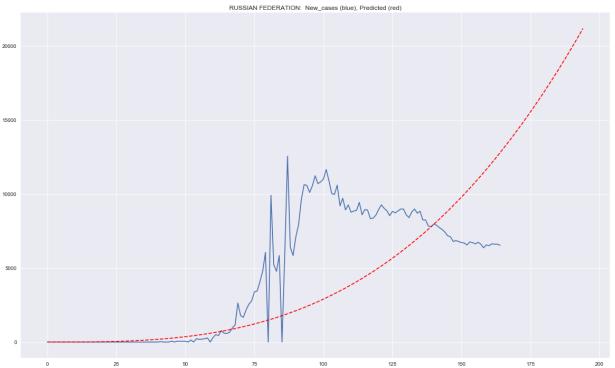


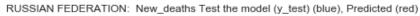




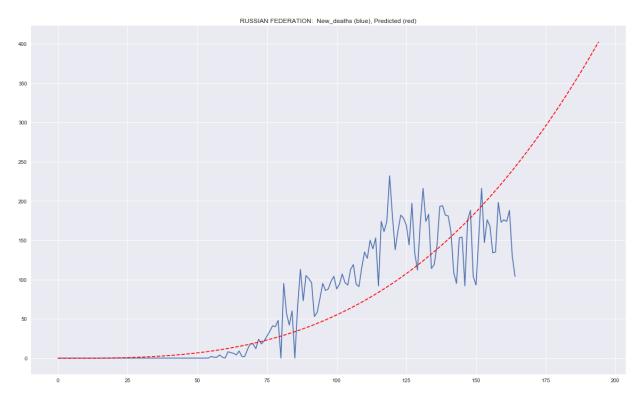


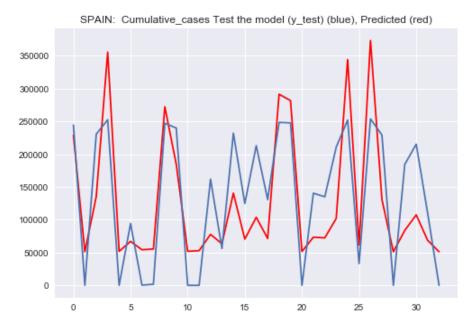


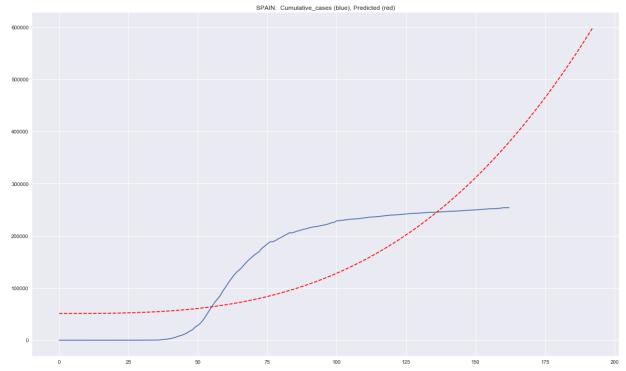


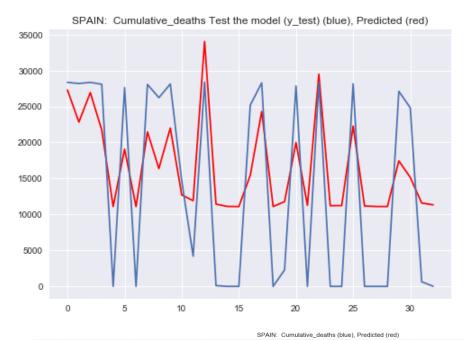


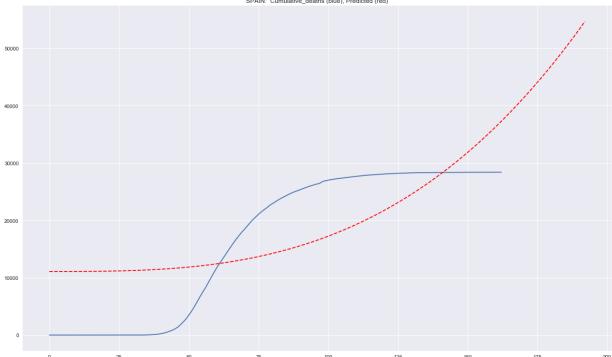




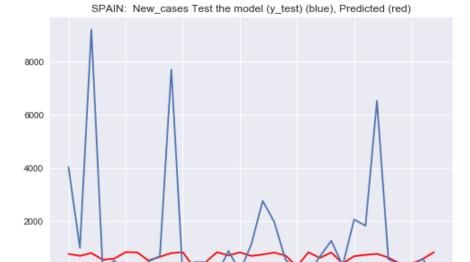


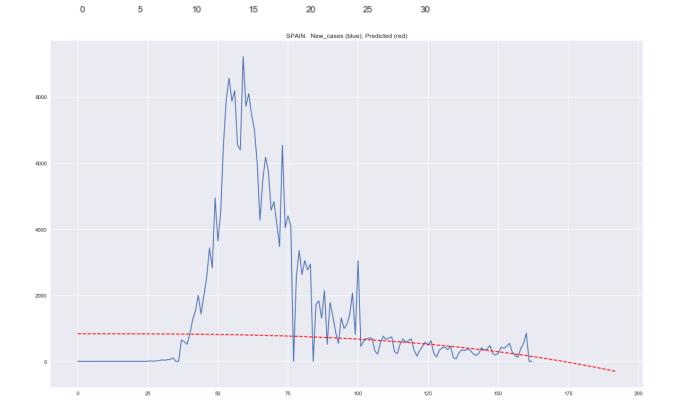


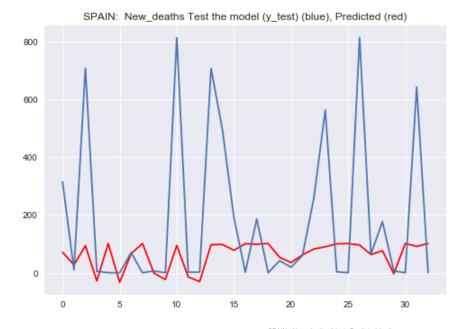


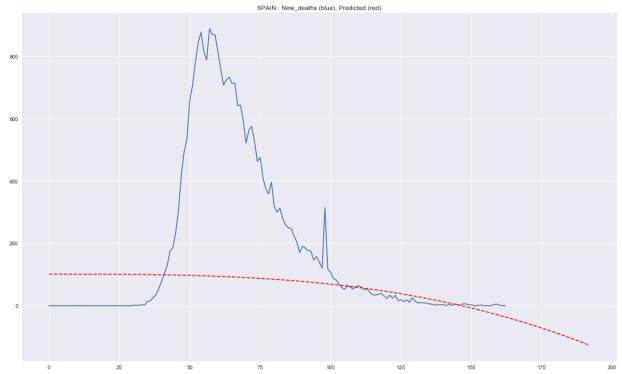


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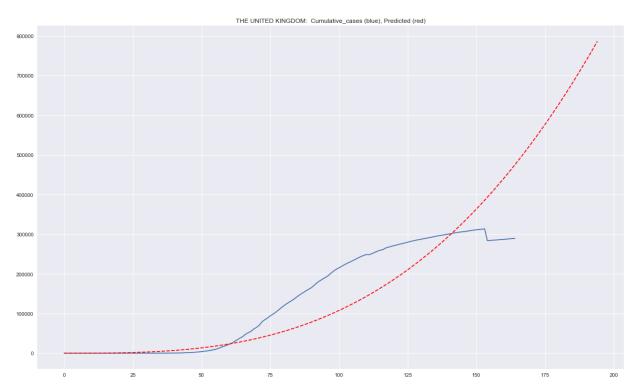


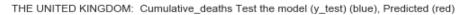


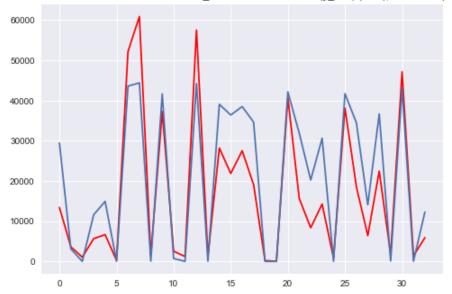




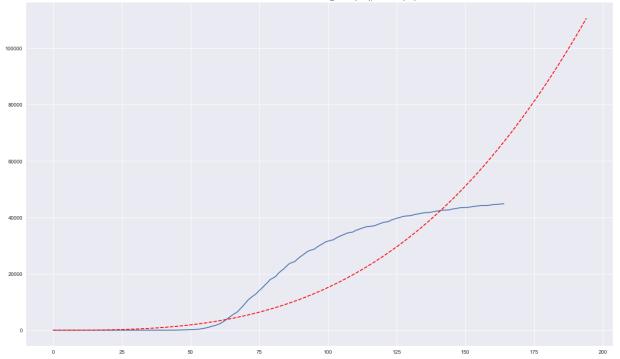


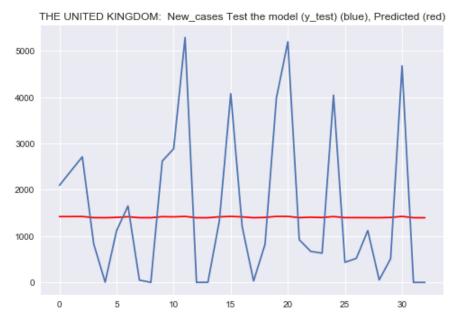


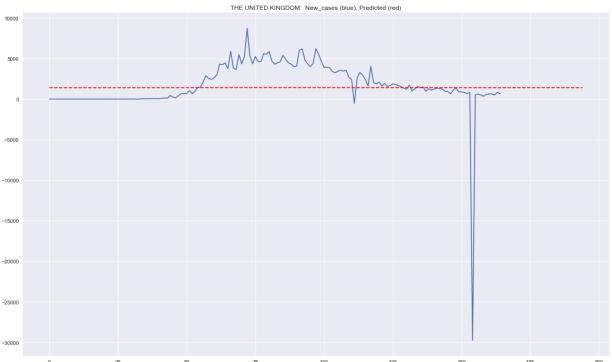


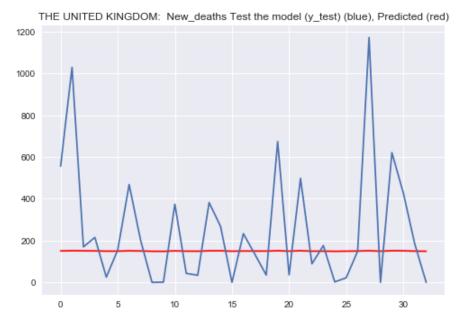


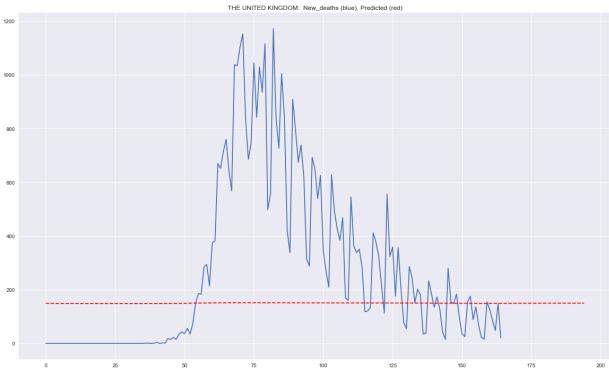




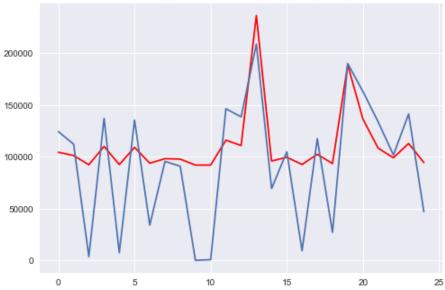


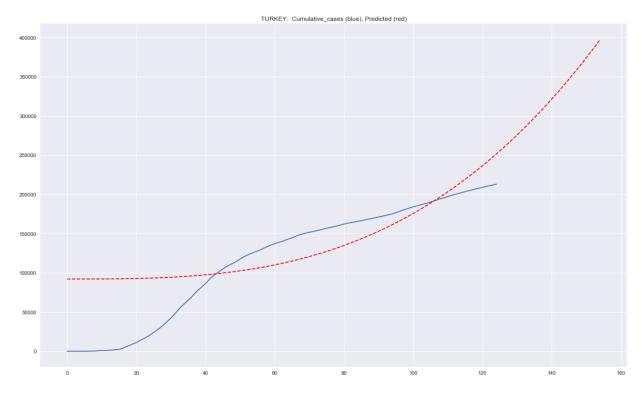




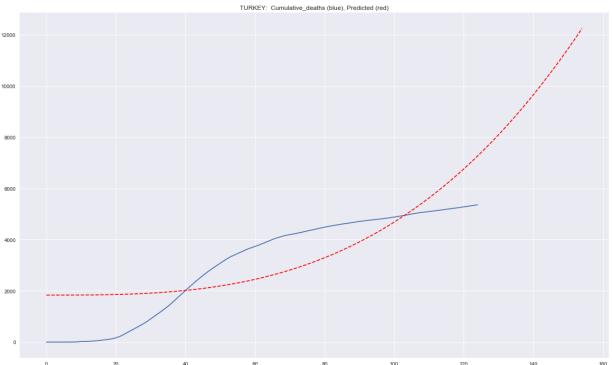




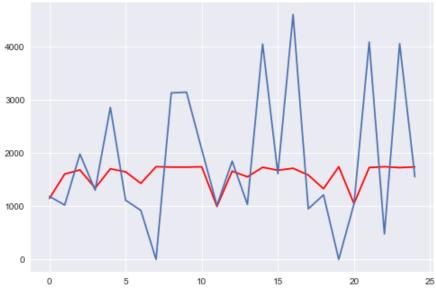


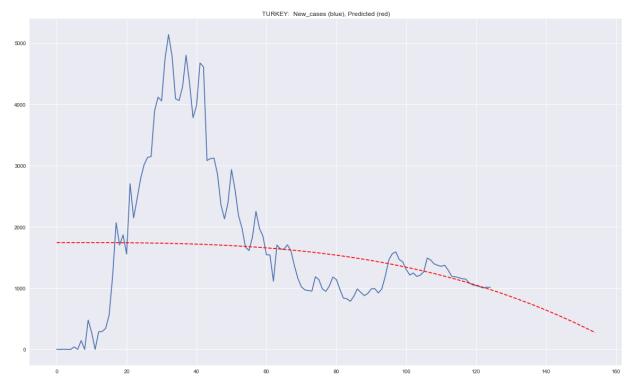




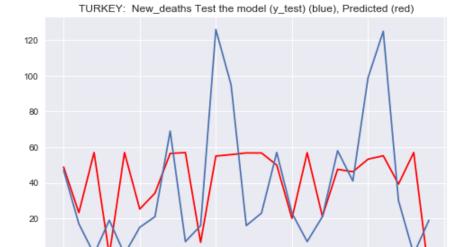


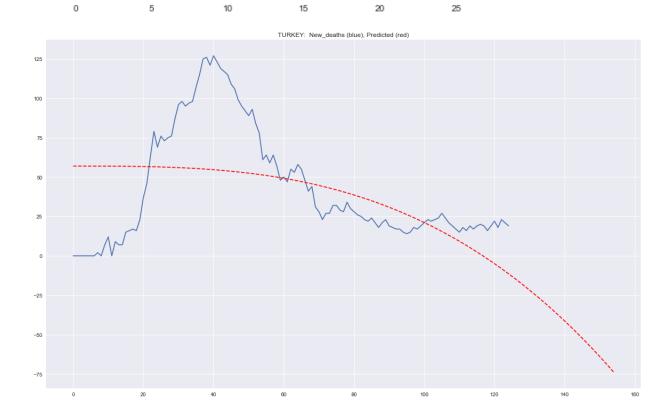




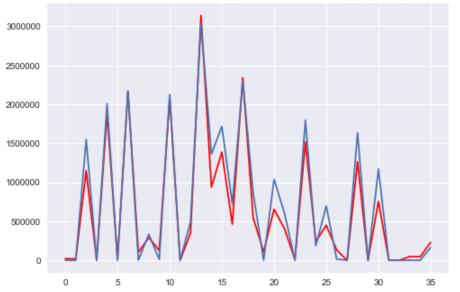


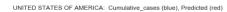
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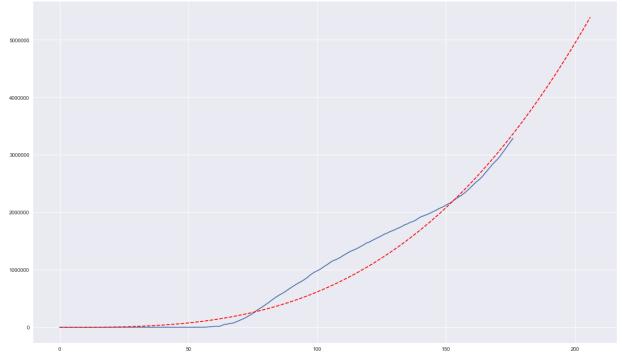




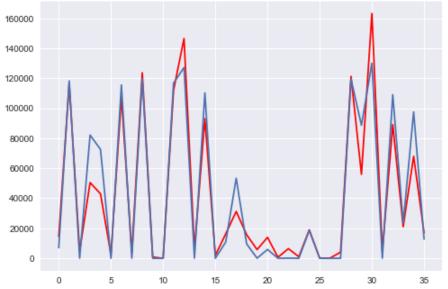


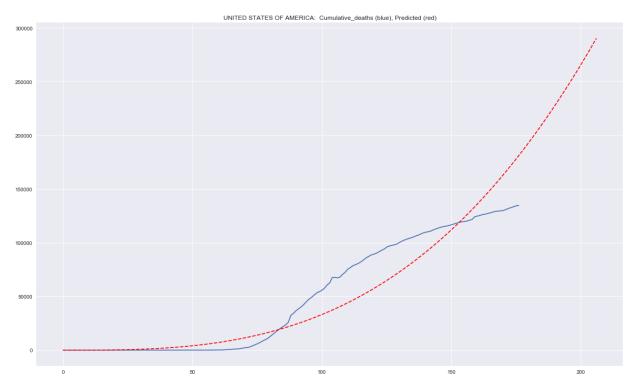




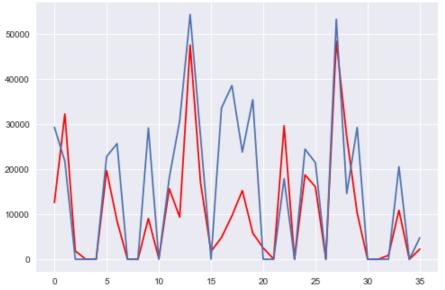




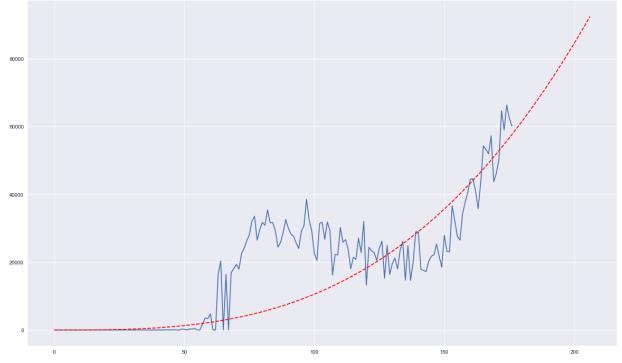


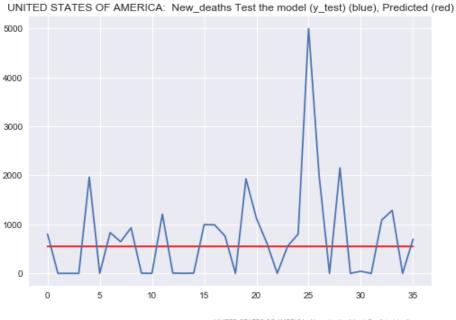


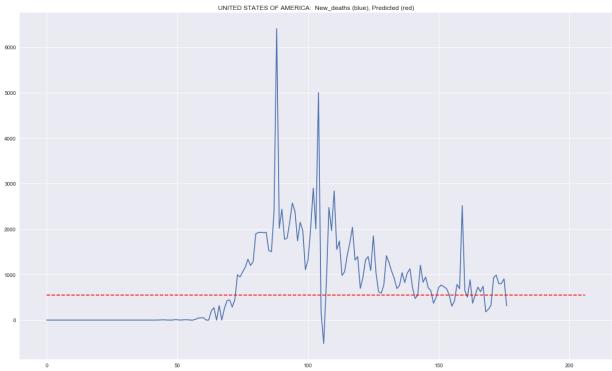












Linear Regression model

In []:

```
In [ ]: from sklearn.linear_model import LinearRegression
        linear_model = LinearRegression(normalize=True, fit_intercept=True)
        linear model.fit(X train confirmed, y train confirmed)
        test linear pred = linear model.predict(X test confirmed)
        linear pred = linear model.predict(future forecast)
        print ('Mean Absolute Error', mean absolute error(test linear pred, y test confirm
        print ('Mean Squared Error', mean_squared_error(test_linear_pred, y_test_confirme
        d))
In [ ]: plt.plot(y test confirmed)
        plt.plot(test linear pred, color="purple")
In [ ]:
In [ ]: #predictions for next 10 days
        print('LINEAR REGRESSION PREDICTIONS')
        print(linear_pred[-10:])
In [ ]: xtrain = X train confirmed
        ytrain = Y train confirmed
        xtest = X_test_confirmed
        ytest = Y test confirmed
        regressor=SVR(kernel='rbf',epsilon=1.0)
        regressor.fit(xtrain,ytrain)
        pred=regressor.predict(xtest)
        print(regressor.score(xtest,ytest))
        print(r2 score(ytest,pred))
```