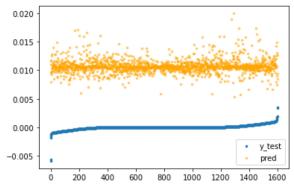


```
534/534 - IS - IOSS: 0.0020
          Epoch 5/30
          534/534 - 1s - loss: 0.0015
          Epoch 6/30
          534/534 - 1s - loss: 0.0012
          Epoch 7/30
          534/534 - 1s - loss: 9.9394e-04
          Epoch 8/30
          534/534 - 1s - loss: 8.6669e-04
          Epoch 9/30
          534/534 - 1s - loss: 7.5869e-04
          Epoch 10/30
          534/534 - 1s - loss: 6.7674e-04
          Epoch 11/30
          534/534 - 1s - loss: 5.9450e-04
          Epoch 12/30
          534/534 - 1s - loss: 5.3032e-04
          Epoch 13/30
          534/534 - 1s - loss: 5.0272e-04
          Epoch 14/30
          534/534 - 1s - loss: 4.5470e-04
          Epoch 15/30
          534/534 - 1s - loss: 4.3066e-04
          Epoch 16/30
          534/534 - 1s - loss: 3.9391e-04
          Epoch 17/30
          534/534 - 1s - loss: 3.7242e-04
          Epoch 18/30
          534/534 - 1s - loss: 3.4579e-04
          Epoch 19/30
          534/534 - 1s - loss: 3.3050e-04
          Epoch 20/30
          534/534 - 1s - loss: 3.0578e-04
          Epoch 21/30
          534/534 - 1s - loss: 3.0112e-04
          Epoch 22/30
          534/534 - 1s - loss: 2.8160e-04
          Epoch 23/30
          534/534 - 1s - loss: 2.7305e-04
          Epoch 24/30
          534/534 - 1s - loss: 2.5442e-04
          Epoch 25/30
          534/534 - 1s - loss: 2.4902e-04
          Epoch 26/30
          534/534 - 1s - loss: 2.3716e-04
          Epoch 27/30
          534/534 - 1s - loss: 2.2201e-04
          Epoch 28/30
          534/534 - 1s - loss: 2.1668e-04
          Epoch 29/30
          534/534 - 1s - loss: 2.0937e-04
          Epoch 30/30
          534/534 - 1s - loss: 2.0067e-04
Out[11]: <tensorflow.python.keras.callbacks.History at 0x294f1278ac0>
In [12]: 1 ypred = model.predict(X test)
           print("y1 MSE: ", mean_squared_error(t_test.iloc[:, 0], ypred[:,0]))
#print("y2 MSE: ", mean_squared_error(t_test.iloc[:, 1], ypred[:,1]))
#print("y3 MSE: ", mean_squared_error(t_test.iloc[:, 2], ypred[:,2]))
          y1 MSE: 0.00011722196005257323
In [13]: 1 x ax = range(len(X test))
           plt.scatter(x_ax, t_test.iloc[:, 0], s=6, label="y1-test")
           4 plt.scatter(x_ax, ypred[:,0], label="y1-pred",c="red",alpha = 0.1)
               plt.legend()
           7 plt.show()
            0.020
            0.015
```

0.010

0.005

```
0.000 - yl-test yl-pred 0 200 400 600 800 1000 1200 1400 1600
```



In []: 1