

时间序列预测算法 API

URL :http://118.89.20.122:8888/api/forecasting_material/?materialID=a&stepAhead=10&lag=10&timeInterval=1

其中 a 为材料标号，其余为算法参数，stepAhead 代表一次向前预测几步，lag 表示一次截取多少数据用作向前预测，timeInterval 代表采样方式，0 按照天采样，1 按照月采样

Method: get

Return:

1、 正常情况:

返回的是多步预测的结果、一次多步向前预测精度、一步向前预测精度、多步向前预测平均精度、一步向前预测平均精度

```
{
  "ansList": [
    1120.0923810478785,
    977.0551607292311,
    896.792234093378,
    853.4975035745,
    858.5473261153642,
    863.7882089623266,
    943.8330619321297,
    1028.5738665104845,
    837.4271321466077,
    802.396066400425
  ],
  "multiStepAccList": [
    64.30078418544925,
    66.50557978492502,
    59.784137013550584,
    64.45261764493627,
    60.15168449814992,
    61.326859085493865,
    64.81770589467484,
    67.18113317800956,
    59.95747387488277,
    61.356332448201854
  ],
  "oneStepAccList": [
    81.52322527572944,
    96.77904495379092,
    83.76431231933739,
    83.1873292968679,
    99.7018448909924,
```

```

            81.08756136449841,
            74.86188482558282,
            99.82977771299994,
            94.95685474794814,
            39.761939070252616
        ],
        "multiStepAcc": 62.9834,
        "oneStepAcc": 83.5454
    }

```

2、没有查询到库存品

```

    {
        "details": "no such goods!"
    }

```

3、stepAhead 小于 0

```

    {
        "details": "step ahead must be positive!"
    }

```

4、stepAhead 大于 20

```

    {
        "details": "step ahead is too large!"
    }

```

5、lag 小于 5

```

    {
        "details": "lag is too low!"
    }

```

6、lag 大于 20

```

    {
        "details": "lag is too high!"
    }

```

7、timeInterval 只可以在 0 或者 1 中选择，0 代表按天采样，1 代表按月采样

```

    {
        "details": "time interval value must be 0 or 1!"
    }

```

8、预测数据过少（序列长度小于 50），则拒绝预测

```

    {
        "details": "time series is too short!"
    }

```