

```
select * from test.ods_test_image_processing_di where imp_date='20220710';
```

| filename | image_info_json | imp_date |
|----------|---|----------|
| 10861 | {"file_name": "10861", "md5": "405736ba61c231ac109a39bffb88e166", "width": 612, "height": 408, "face_no": 11} | 20220710 |
| 10827 | {"file_name": "10827", "md5": "a37864b4aabe1c018e08d57cea109e32", "width": 612, "height": 408, "face_no": 10} | 20220710 |
| 10337 | {"file_name": "10337", "md5": "ccb594ff59e21946d99044079f32cbce", "width": 612, "height": 408, "face_no": 10} | 20220710 |
| 10177 | {"file_name": "10177", "md5": "b3b1a3881f6e0ba0e8e8f001582ebc6b", "width": 612, "height": 408, "face_no": 12} | 20220710 |
| 10552 | {"file_name": "10552", "md5": "bc02f82b8d864e926d702ad5ac91874f", "width": 612, "height": 408, "face_no": 14} | 20220710 |
| 10490 | {"file_name": "10490", "md5": "03e7e235ef054e84325523d4d54dbd14", "width": 612, "height": 408, "face_no": 10} | 20220710 |

Figure1. ODS table structure

There are 3 columns in the ODS table, where 'image_info_json' is the unparsed JSON body, and column 'imp_date' is for partitioning purpose.

```
invalidate metadata;
select * from test.dwd_test_image_processing_di where imp_date='20220710';
```

| filename | md5 | width | height | face_no | imp_date |
|----------|----------------------------------|-------|--------|---------|----------|
| 10994 | fe542f39ad918a167fbdddd545438f40 | 612 | 408 | 11 | 20220710 |
| 10014 | 74bb0b4f61426fc5153c2e4ab1f2f09c | 612 | 476 | 10 | 20220710 |
| 10904 | 31b5db66335039cb88b1de08cef342d2 | 612 | 408 | 10 | 20220710 |
| 10791 | b778e88036de1f78829d8feb1ea76d34 | 612 | 408 | 12 | 20220710 |
| 10295 | 781b9e6c1a89f5751907b504a2ed85a7 | 612 | 407 | 14 | 20220710 |

Figure2. DWD table structure

Basically, the columns in DWD table are the parsed value from ODS.

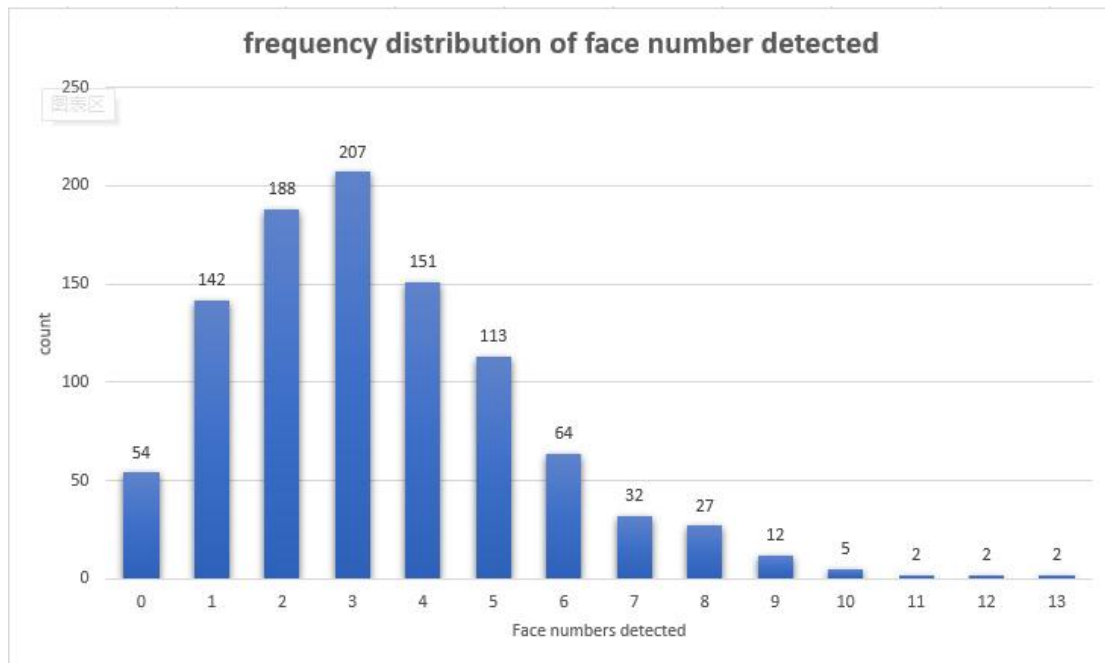


Figure3. frequency distribution of face number detected – from Excel

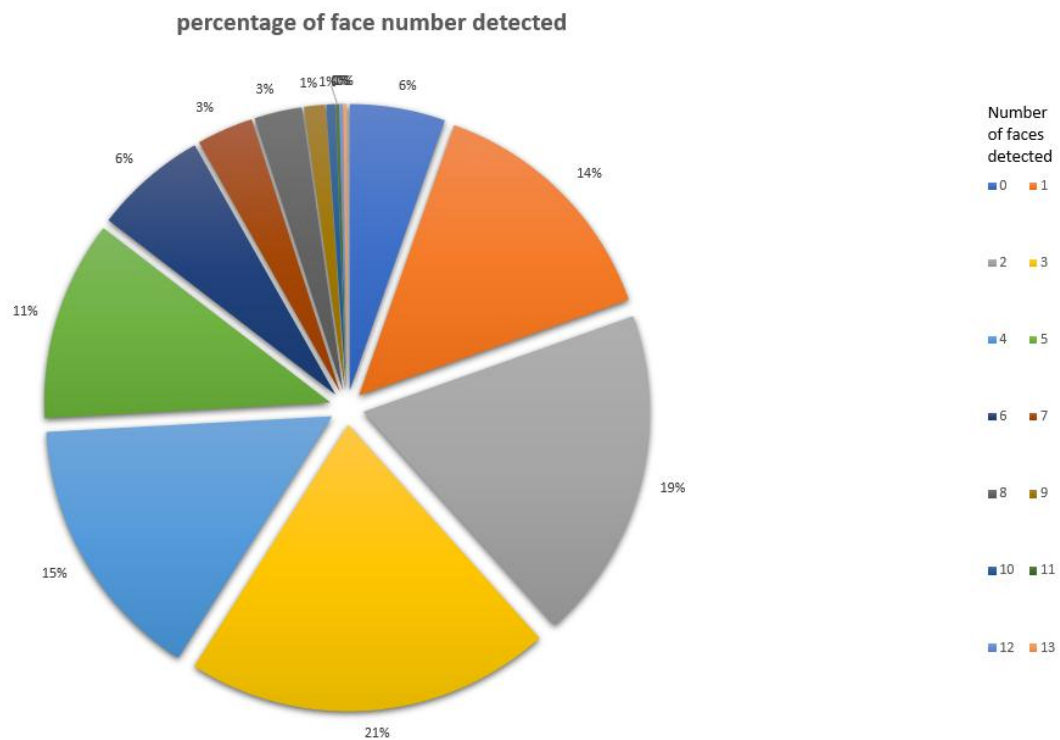


Figure4. percentage of face number detected – from Excel

Figure3 and 4 are obtained from 'dwd_table.xlsx'.

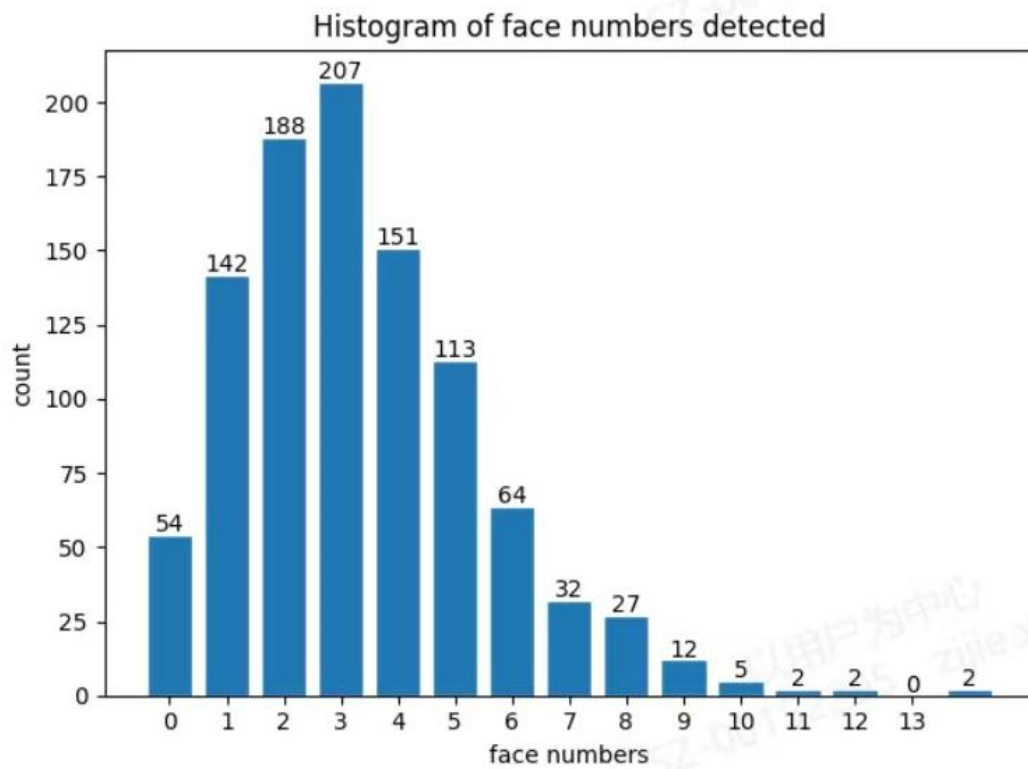


Figure5. percentage of face number detected – from Python

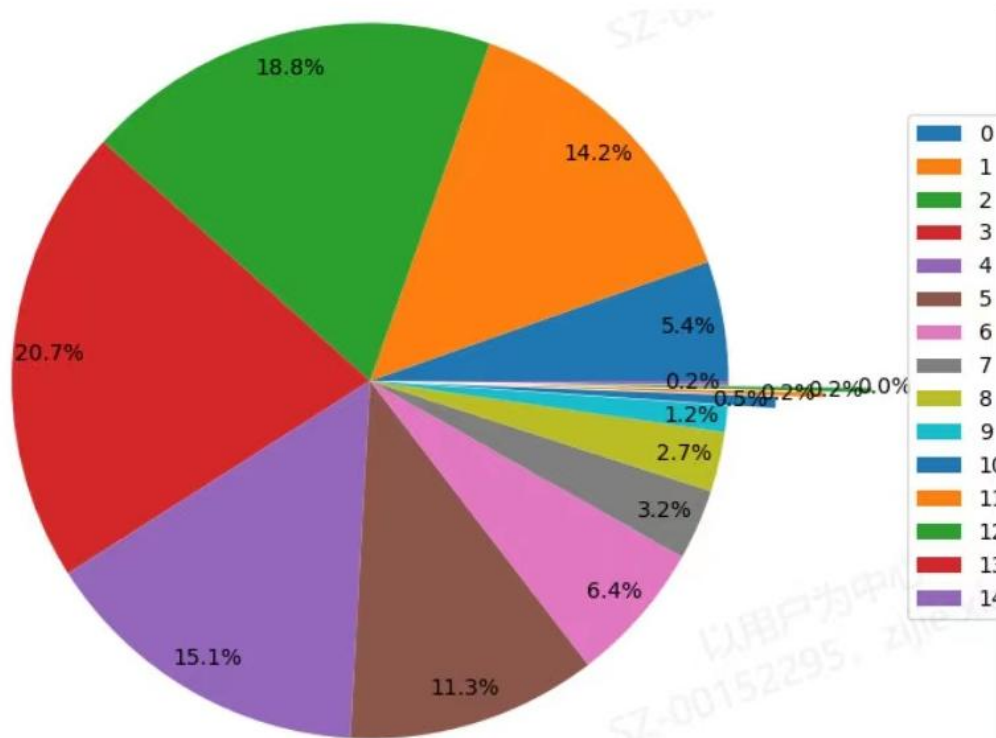


Figure6. percentage of face number detected – from Python

Figure5 and 6 are obtained from 'step4_visualization.py'.

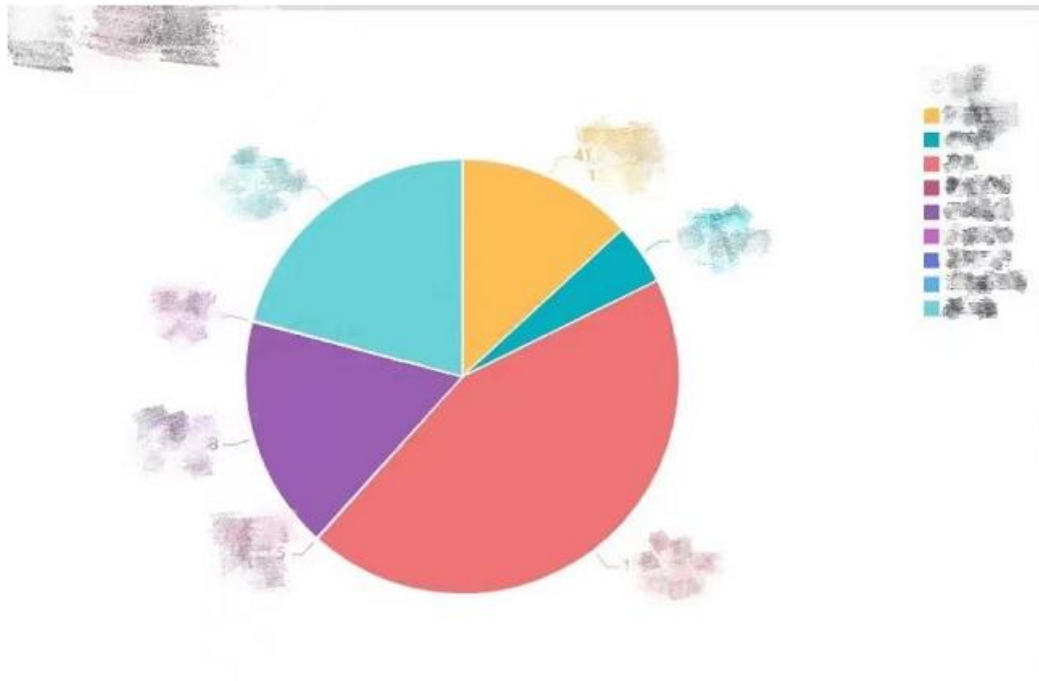


Figure7. fineBI generated chart-I

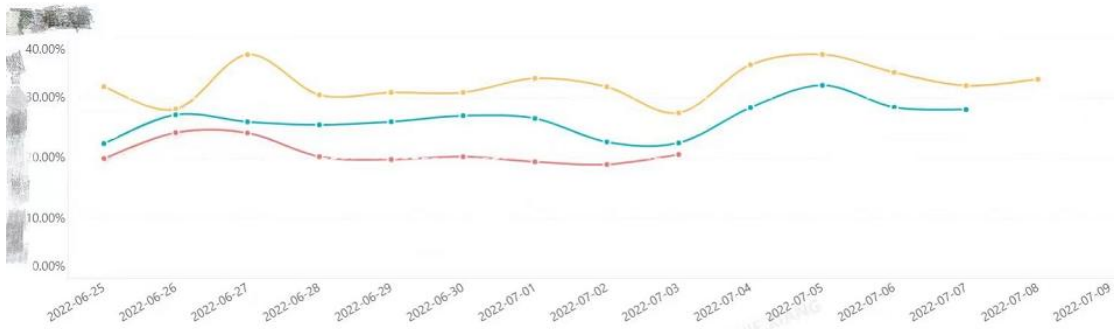


Figure8. fineBI generated chart-II

Figure7 and 8 are the visualizations of my recently finished project via fineBI.