## Variable Definitions

### Input Variables

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Description |
| side | Binary | 1 = Buy, -1 = Sell |
| return\_t5 | Float | Price change 5 days before the transaction. |
| return\_t30 | Float | Price change 30 days before the transaction. |
| vol\_sh\_out\_pct | Float | Size of transaction relative to the total outstanding share in percentage. |
| Stakepct | Float | Percentage of stake held by director in the company. |
| stake\_pct\_chg | Float | Percentage change of stake holding by the director. If the director does not own any shares before transaction, put as 0. |
| mkt\_cap | Float | Market capitalization of the stock at the day of transaction. Unit: billions HKD. |
| prev\_tran\_num | Integer | Number of transaction from the same director trading the same stock on the same side (buy or sell) in the past. |

### Output Variables

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Description |
| Return5d | Binary | 1 = positive 5 day return after transaction date, -1 = negative 5 day return after transaction date |
| Return30d | Binary | 1 = positive 30 day return after transaction date, -1 = negative 30 day return after transaction date |
| Return90d | Binary | 1 = positive 90 day return after transaction date, -1 = negative 90 day return after transaction date |