|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Personal Character (PC)** | **Education Level**  **(EL)** | **Financial Standing**  **(FS)** | **Beauty**  **(B)** | **Previous History**  **(PH)** | **i** |
| Not Nice | Illiterate | Broke | Hideous | Total Stranger | **1** |
| Somewhat Nice | Slow | Poor | Ugly | Friend of a Friend | **2** |
| Nice | Average | Average | Average | Friend | **3** |
| Very Nice | Smart | Prosperous | Cute | Good Friend | **4** |
| Extremely Nice | Genius | Rich | Beautiful | Childhood Friend | **5** |

For ease of use and writing, let us use the following notation:

**1 -** Lowest value for any input (Far left)

**2 -** Second Lowest value for any input (Left)

**3 -** Middle value for any input (Middle)

**4 -** Second Highest value for any input (Right)

**5 -** Highest value for any input (Far Right)

Rules Guideline:

* 100 rules for each desirable output (20 for each output)
  + 5 for NOT (Total 20 for each desirable output)
* 25 rules for individual inputs (OR), but with lower weights to give precedence to combination (AND) rules
* Important are : FS, PC
* Least important: PH, B

**Sample Rule Base**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Rule** | **PC** | **EL** | **FS** | **B** | **PH** | **M** | **Rule** | **PC** | **EL** | **FS** | **B** | **PH** | **M** |
| 1 | XS | XS | XS | XS | XS | XS | 8 |  |  |  |  |  |  |
| 2 | M | M | M | M | M | M | 9 |  |  |  |  |  |  |
| 3 | XL | XL | XL | XL | XL | XL | 10 |  |  |  |  |  |  |
| 4 | M | M | S | S | M | M | 11 |  |  |  |  |  |  |
| 5 | S | S | M | M | S | S | 12 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  | 13 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  | 14 |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Rule** | **PC** | **EL** | **FS** | **B** | **PH** | **M** | **Rule** | **PC** | **EL** | **FS** | **B** | **PH** | **M** |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 1 | 2 | 1 | 2 | 1 | 1 |
| 2 | 1 | 1 | 1 | 1 | 2 | 1 | 15 | 1 | 2 | 1 | 1 | 2 | 1 |
| 3 | 1 | 1 | 1 | 2 | 1 | 1 | 16 | !5 | 1 | !5 | 1 | 1 | 1 |
| 4 | 1 | 1 | 2 | 1 | 1 | 1 | 17 | !5 | 1 | 1 | 1 | 1 | 1 |
| 5 | 1 | 2 | 1 | 1 | 1 | 1 | 18 | 1 | 1 | !5 | 1 | 1 | 1 |
| 6 | 2 | 1 | 1 | 1 | 1 | 1 | 19 | 1 | 1 | 1 | 3 | 1 | 1 |
| 7 | 2 | 2 | 1 | 2 | 2 | 1 | 20 | 1 | 1 | 1 | 1 | 3 | 1 |
| 8 | 1 | 2 | 2 | 2 | 2 | 1 | 21 |  |  |  |  |  |  |
| 9 | 1 | 2 | 1 | 2 | 2 | 1 | 22 |  |  |  |  |  |  |
| 10 | 1 | 1 | 1 | 2 | 2 | 1 | 23 |  |  |  |  |  |  |
| 11 | 1 | 2 | 1 | 2 | 2 | 1 | 24 |  |  |  |  |  |  |
| 12 | 1 | 3 | 1 | 1 | 1 | 1 | 25 |  |  |  |  |  |  |
| 13 | 1 | 2 | 1 | 1 | 3 | 1 | 26 |  |  |  |  |  |  |