Artificial Neural Network





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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Make** | **Yr** | **Fuel** | **Vehicle** | **Use** | **CO** | **CO2** | **O2** | **HC** | **Age** |
| **1** | Honda | 2006 | Petrol | Car | Commercial | 0 | 13.5 | 1.55 | 0 | 8 |
| **2** | Honda | 2007 | Petrol | Jeep | Commercial | 0 | 14.7 | 0.08 | 10 | 7 |
| **3** | Toyota | 2011 | Petrol | Car | Commercial | 0 | 14.6 | 0.72 | 1 | 3 |
| **4** | Toyota | 1998 | Petrol | Car | Official | 0 | 10.2 | 3.15 | 1 | 16 |
| **5** | Toyota | 2002 | Petrol | Car | Official | 0 | 14.5 | 0.6 | 1 | 12 |
| **6** | Toyota | 2002 | Petrol | Jeep | Official | 0 | 12.9 | 1.52 | 4 | 12 |
| **7** | Honda | 1993 | Petrol | Car | Private | 0 | 12.5 | 2.8 | 34 | 21 |
| **8** | Honda | 1993 | Petrol | Car | Private | 0 | 5.3 | 5.3 | 697 | 21 |
| **9** | Volswagen | 1994 | Petrol | Car | Private | 0 | 12.5 | 12.5 | 4 | 20 |
| **10** | Nissan | 1997 | Petrol | Jeep | Private | 0 | 13.6 | 5.3 | 4 | 17 |

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|  | **Make0** | **Make1** | **Make2** | **Make3** | **Fuel0** | **Vehicle0** | **Vehicle1** | **Use0** | **Use1** | **Use2** | **Age1** |
| **1** | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0.277778 |
| **2** | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0.222222 |
| **3** | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| **4** | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0.722222 |
| **5** | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0.5 |
| **6** | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0.5 |
| **7** | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| **8** | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| **9** | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0.944444 |
| **10** | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0.777778 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **CO21** | **CO21** | **O21** | **HC1** |
| **1** | 0.87234 | 0.87234 | 0.118357 | 0 |
| **2** | 1 | 1 | 0 | 0.014347 |
| **3** | 0.989362 | 0.989362 | 0.05153 | 0.001435 |
| **4** | 0.521277 | 0.521277 | 0.247182 | 0.001435 |
| **5** | 0.978723 | 0.978723 | 0.041868 | 0.001435 |
| **6** | 0.808511 | 0.808511 | 0.115942 | 0.005739 |
| **7** | 0.765957 | 0.765957 | 0.219002 | 0.04878 |
| **8** | 0 | 0 | 0.42029 | 1 |
| **9** | 0.765957 | 0.765957 | 1 | 0.005739 |
| **10** | 0.882979 | 0.882979 | 0.42029 | 0.005739 |



