

EM

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Number of clusters selected by cross validation: 7

| | | Cluster | | | | | | | |
|-----------|--|---------|---------|---------|---------|---------|---------|---------|---|
| Attribute | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
| | | (0.08) | (0.4) | (0.13) | (0.02) | (0.07) | (0.19) | (0.11) | |
| ===== | | | | | | | | | |
| a01 | | | | | | | | | |
| mean | | 1 | 1 | 0.3179 | 0.6495 | | 1 | 0.9404 | 1 |
| std. dev. | | 0.3112 | 0.0008 | 0.4656 | 0.4771 | 0.3112 | 0.2367 | 0.3112 | |
| a02 | | | | | | | | | |
| mean | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| std. dev. | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| a03 | | | | | | | | | |
| mean | | 0.8793 | 0.8306 | 0.255 | -0.4019 | 0.9731 | 0.2756 | 0.8452 | |
| std. dev. | | 0.1427 | 0.1972 | 0.8281 | 0.6986 | 0.0614 | 0.4079 | 0.1726 | |
| a04 | | | | | | | | | |
| mean | | 0.2155 | -0.0067 | 0.0278 | -0.299 | -0.0971 | -0.0352 | 0.4163 | |
| std. dev. | | 0.1757 | 0.2469 | 0.8623 | 0.7484 | 0.229 | 0.3891 | 0.1817 | |
| a05 | | | | | | | | | |
| mean | | 0.8263 | 0.8704 | 0.3784 | -0.3504 | 0.9507 | 0.0491 | 0.6248 | |
| std. dev. | | 0.1913 | 0.1558 | 0.7628 | 0.4771 | 0.1279 | 0.4984 | 0.1861 | |
| a06 | | | | | | | | | |
| mean | | 0.3503 | 0.0498 | -0.0055 | 0.2019 | -0.2105 | 0.0581 | 0.6438 | |
| std. dev. | | 0.1336 | 0.2516 | 0.8567 | 0.3722 | 0.3626 | 0.3589 | 0.213 | |
| a07 | | | | | | | | | |
| mean | | 0.7412 | 0.8471 | 0.262 | 0.2352 | 0.9308 | 0.0869 | 0.2964 | |
| std. dev. | | 0.1471 | 0.165 | 0.7729 | 0.6555 | 0.1107 | 0.3793 | 0.2044 | |
| a08 | | | | | | | | | |
| mean | | 0.4769 | 0.0292 | 0.0244 | 0.2652 | -0.3412 | -0.0261 | 0.8492 | |
| std. dev. | | 0.1971 | 0.2843 | 0.8037 | 0.8278 | 0.3136 | 0.4419 | 0.1465 | |
| a09 | | | | | | | | | |
| mean | | 0.5726 | 0.8211 | 0.3076 | -0.1178 | 0.9331 | 0.2342 | -0.1122 | |
| std. dev. | | 0.1982 | 0.1913 | 0.7309 | 0.8853 | 0.1344 | 0.389 | 0.2204 | |
| a10 | | | | | | | | | |
| mean | | 0.6434 | 0.0021 | 0.2123 | -0.1149 | -0.1253 | 0.0861 | 0.8767 | |
| std. dev. | | 0.2011 | 0.2034 | 0.7268 | 0.7706 | 0.3294 | 0.4144 | 0.0986 | |
| a11 | | | | | | | | | |
| mean | | 0.467 | 0.8266 | 0.3601 | -0.4023 | 0.9231 | 0.2456 | -0.4246 | |

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| std. dev. | 0.2505 | 0.1811 | 0.7598 | 0.4587 | 0.1137 | 0.4323 | 0.2714 |
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| a12 | | | | | | | |
| mean | 0.7358 | 0.0529 | 0.1792 | -0.3651 | -0.3305 | 0.0094 | 0.722 |
| std. dev. | 0.2045 | 0.2446 | 0.8231 | 0.4282 | 0.2365 | 0.3466 | 0.2146 |

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| a13 | | | | | | | |
| mean | 0.2664 | 0.8411 | 0.3107 | 0.1752 | 0.8278 | 0.0591 | -0.6536 |
| std. dev. | 0.3082 | 0.153 | 0.8341 | 0.7035 | 0.2 | 0.3695 | 0.2312 |

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| a14 | | | | | | | |
| mean | 0.7556 | 0.0359 | -0.1419 | -0.1752 | -0.2638 | 0.024 | 0.4908 |
| std. dev. | 0.1746 | 0.2437 | 0.8562 | 0.7035 | 0.432 | 0.2968 | 0.2906 |

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| a15 | | | | | | | |
| mean | 0.1532 | 0.8328 | 0.1759 | -0.3505 | 0.8651 | 0.0329 | -0.7949 |
| std. dev. | 0.3746 | 0.1551 | 0.751 | 0.4771 | 0.1613 | 0.431 | 0.1641 |

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| a16 | | | | | | | |
| mean | 0.7218 | 0.0652 | -0.0055 | -0.0959 | -0.4368 | -0.0169 | 0.2024 |
| std. dev. | 0.1924 | 0.2852 | 0.7686 | 0.1326 | 0.2555 | 0.324 | 0.3363 |

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| a17 | | | | | | | |
| mean | -0.0053 | 0.7941 | 0.2867 | 0.1388 | 0.8324 | 0.2107 | -0.6874 |
| std. dev. | 0.4115 | 0.2143 | 0.778 | 0.8718 | 0.1899 | 0.3612 | 0.2173 |

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| a18 | | | | | | | |
| mean | 0.7423 | 0.0378 | -0.1028 | -0.8434 | -0.4391 | -0.0215 | -0.172 |
| std. dev. | 0.148 | 0.2944 | 0.8353 | 0.2757 | 0.2348 | 0.3382 | 0.3522 |

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| a19 | | | | | | | |
| mean | -0.1699 | 0.7943 | 0.1286 | 0.1549 | 0.7424 | 0.2347 | -0.5579 |
| std. dev. | 0.453 | 0.1924 | 0.8246 | 0.8759 | 0.2486 | 0.4012 | 0.3414 |

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| a20 | | | | | | | |
| mean | 0.6703 | 0.0425 | 0.0872 | -0.5365 | -0.5464 | -0.0869 | -0.4214 |
| std. dev. | 0.1961 | 0.264 | 0.8429 | 0.7272 | 0.2423 | 0.4174 | 0.3349 |

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| a21 | | | | | | | |
| mean | -0.2483 | 0.7981 | 0.0732 | 0.6407 | 0.6989 | 0.043 | -0.3467 |
| std. dev. | 0.4226 | 0.1836 | 0.8232 | 0.5454 | 0.3383 | 0.3372 | 0.4153 |

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| a22 | | | | | | | |
| mean | 0.5654 | 0.0821 | 0.1964 | -0.8761 | -0.3488 | 0.0272 | -0.6093 |
| std. dev. | 0.2344 | 0.2925 | 0.8191 | 0.3294 | 0.455 | 0.3265 | 0.2736 |

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| a23 | | | | | | | |
| mean | -0.3366 | 0.7928 | 0.2629 | -0.4328 | 0.7052 | 0.0357 | -0.0773 |
| std. dev. | 0.4499 | 0.1987 | 0.8563 | 0.48 | 0.2597 | 0.3627 | 0.475 |

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| a24 | | | | | | | |
| mean | 0.4646 | 0.0342 | 0.025 | -0.6495 | -0.5074 | -0.0363 | -0.5672 |
| std. dev. | 0.3088 | 0.3369 | 0.8809 | 0.4771 | 0.3985 | 0.3672 | 0.2265 |

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| a25 | | | | | | | | |
| mean | -0.4272 | 0.7409 | 0.2931 | 0.7522 | 0.6836 | 0.0889 | 0.2042 | |
| std. dev. | 0.4158 | 0.2312 | 0.8279 | 0.6589 | 0.2888 | 0.4353 | 0.451 | |
| a26 | | | | | | | | |
| mean | 0.3707 | 0.0498 | -0.1628 | -0.5788 | -0.5772 | 0.0297 | -0.5306 | |
| std. dev. | 0.3868 | 0.2987 | 0.8382 | 0.743 | 0.2177 | 0.358 | 0.2974 | |
| a27 | | | | | | | | |
| mean | -0.4217 | 0.7676 | 0.9409 | -1 | 0.6435 | 0.4015 | 0.3802 | |
| std. dev. | 0.3438 | 0.1985 | 0.2961 | 0.004 | 0.2956 | 0.4725 | 0.3624 | |
| a28 | | | | | | | | |
| mean | 0.274 | 0.0729 | -0.0402 | -0.3404 | -0.6154 | -0.1344 | -0.3883 | |
| std. dev. | 0.4401 | 0.2711 | 0.9614 | 0.7355 | 0.1924 | 0.5176 | 0.4107 | |
| a29 | | | | | | | | |
| mean | -0.4547 | 0.7101 | 0.2145 | 0.1238 | 0.5746 | 0.075 | 0.4693 | |
| std. dev. | 0.3088 | 0.2505 | 0.8722 | 0.8997 | 0.3476 | 0.443 | 0.288 | |
| a30 | | | | | | | | |
| mean | 0.1725 | 0.054 | 0.1575 | -0.8247 | -0.6339 | -0.0389 | -0.1809 | |
| std. dev. | 0.4711 | 0.2941 | 0.8384 | 0.3804 | 0.2569 | 0.3355 | 0.5558 | |
| a31 | | | | | | | | |
| mean | -0.431 | 0.7286 | -0.0228 | 0.2991 | 0.5842 | 0.0659 | 0.4186 | |
| std. dev. | 0.2732 | 0.2422 | 0.8925 | 0.7484 | 0.3656 | 0.306 | 0.2531 | |
| a32 | | | | | | | | |
| mean | 0.0542 | 0.0926 | 0.1283 | -0.3557 | -0.6953 | -0.0245 | -0.0244 | |
| std. dev. | 0.5004 | 0.324 | 0.8766 | 0.7357 | 0.1999 | 0.3065 | 0.4964 | |
| a33 | | | | | | | | |
| mean | -0.3716 | 0.7209 | 0.1133 | -0.149 | 0.4599 | 0.0633 | 0.3551 | |
| std. dev. | 0.2764 | 0.243 | 0.7327 | 0.3961 | 0.4105 | 0.2808 | 0.3752 | |
| a34 | | | | | | | | |
| mean | -0.0298 | 0.0806 | 0.0971 | 0.3504 | -0.6864 | -0.0186 | 0.1747 | |
| std. dev. | 0.5182 | 0.3327 | 0.7188 | 0.4771 | 0.2077 | 0.2654 | 0.4452 | |

=== Clustering stats for training data ===

Clustered Instances

| | |
|---|------------|
| 0 | 28 (8%) |
| 1 | 136 (39%) |
| 2 | 59 (17%) |
| 3 | 7 (2%) |
| 4 | 22 (6%) |
| 5 | 64 (18%) |
| 6 | 35 (10%) |

Log likelihood: 5.99136