For UD

AUC

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|  | **cbo** | **lcc** | **staticMethodsQty** | **nosi** | **returnQty** | **numbersQty** | **uniqueWordsQty** | **modifiers** |
| Decision Tree （CART） | 0.5408 | 0.5866 | 0.6258 | 0.5424 | 0.4959 | 0.5640 | 0.5603 | 0.4377 |
| Random Forest | 0.5073 | 0.5914 | 0.6142 | 0.4800 | 0.5642 | 0.6273 | 0.6093 | 0.5230 |
| LogisticRegression\_liblinear | 0.5878 | 0.5042 | 0.6595 | 0.5774 | 0.6602 | 0.6479 | 0.6941 | 0.6341 |
| Naïve\_bayes\_GaussianNB | 0.5345 | 0.3850 | 0.5883 | 0.5393 | 0.5474 | 0.4848 | 0.6203 | 0.6603 |
| XGBoost | 0.5439 | 0.5553 | 0.6238 | 0.5071 | 0.6034 | 0.6504 | 0.6523 | 0.6131 |
| AdaBoost | 0.5237 | 0.5152 | 0.5838 | 0.4914 | 0.5788 | 0.6100 | 0.6956 | 0.6117 |
| KNN | 0.5767 | 0.5905 | 0.6743 | 0.6100 | 0.6758 | 0.6494 | 0.7173 | 0.6616 |

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|  | **nopm** | **fanin** | **fanout** | **ca** | **A** | **I** | **D** |  |
| Decision Tree （CART） | 0.6099 | 0.6016 | 0.4954 | 0.7131 | 0.4245 | 0.8578 | 0.6631 |  |
| Random Forest | 0.6440 | 0.6609 | 0.4916 | 0.7657 | 0.4609 | 0.8153 | 0.7256 |  |
| LogisticRegression\_liblinear | 0.7055 | 0.7598 | 0.6005 | 0.8295 | 0.6417 | 0.8803 | 0.8117 |  |
| Naïve\_bayes\_GaussianNB | 0.6803 | 0.6698 | 0.5157 | 0.7885 | 0.6166 | 0.8803 | 0.8117 |  |
| XGBoost | 0.6944 | 0.6810 | 0.4869 | 0.8057 | 0.5698 | 0.8681 | 0.7806 |  |
| AdaBoost | 0.6391 | 0.6761 | 0.5235 | 0.7685 | 0.5535 | 0.8117 | 0.7662 |  |
| KNN | 0.7361 | 0.7789 | 0.6245 | 0.8376 | 0.6742 | 0.8797 | 0.8166 |  |