

The Feature Importance graph from Light GBM

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Training until validation scores don't improve for 100 rounds.
[50] valid_0's binary_logloss: 0.619207 valid_0's auc: 0.709171
[100] valid_0's binary_logloss: 0.613487 valid_0's auc: 0.716585
[150] valid_0's binary_logloss: 0.611435 valid_0's auc: 0.719343
[200] valid_0's binary_logloss: 0.609796 valid_0's auc: 0.721468
[250] valid_0's binary_logloss: 0.608755 valid_0's auc: 0.722841
[300] valid_0's binary_logloss: 0.607816 valid_0's auc: 0.724091
[350] valid_0's binary_logloss: 0.607266 valid_0's auc: 0.724759
[400] valid_0's binary_logloss: 0.606856 valid_0's auc: 0.725278
[450] valid_0's binary_logloss: 0.606548 valid_0's auc: 0.725653
[500] valid_0's binary_logloss: 0.606139 valid_0's auc: 0.726159
[550] valid_0's binary_logloss: 0.605794 valid_0's auc: 0.726555
[600] valid_0's binary_logloss: 0.605562 valid_0's auc: 0.726808
[650] valid_0's binary_logloss: 0.60529 valid_0's auc: 0.727146
[700] valid_0's binary_logloss: 0.60503 valid_0's auc: 0.727472
[750] valid_0's binary_logloss: 0.604987 valid_0's auc: 0.727519
[800] valid_0's binary_logloss: 0.604863 valid_0's auc: 0.727675
[850] valid_0's binary_logloss: 0.604778 valid_0's auc: 0.727784
[900] valid_0's binary_logloss: 0.604658 valid_0's auc: 0.727927
[950] valid_0's binary_logloss: 0.604617 valid_0's auc: 0.72796
[1000] valid_0's binary_logloss: 0.604577 valid_0's auc: 0.728016
[1050] valid_0's binary_logloss: 0.604465 valid_0's auc: 0.728157
[1100] valid_0's binary_logloss: 0.604409 valid_0's auc: 0.728224
[1150] valid_0's binary_logloss: 0.604368 valid_0's auc: 0.728267
[1200] valid_0's binary_logloss: 0.604344 valid_0's auc: 0.7283
[1250] valid_0's binary_logloss: 0.604327 valid_0's auc: 0.728333
[1300] valid_0's binary_logloss: 0.60434 valid_0's auc: 0.72831
Early stopping, best iteration is:
[1245] valid_0's binary_logloss: 0.604308 valid_0's auc: 0.728357
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