**Logistic Equation**

P(CANCELLED=1) =

1 / (1 + e*^*(-(-0.0005520774257536594 +

0.000000000\*YEAR + -0.006975600\*MONTH + -

0.009185528\*DAY + -0.001770671\*DAY OF WEEK +

-0.002014157\*AIRLINE +0.000078875\*FLIGHT NUMBER

+ -0.000047177\*TAIL NUMBER + -

0.000190176\*ORIGIN AIRPORT + -

0.001322680\*DESTINATION AIRPORT +

0.001697000\*SCHEDULED DEPARTURE

+ -0.005643199\*DEPARTURE TIME +

0.003107850\*DEPARTURE DELAY + -

0.007189963\*TAXI OUT + -0.013081281\*WHEELS OFF

+ -0.000045041\*SCHEDULED TIME + -

0.050743971\*ELAPSED TIME + -0.037915582\*AIR TIME

+ -0.000679128\*DISTANCE + 0.020362302\*WHEELS ON

+ -0.008667429\*TAXI IN + 0.001329775\*SCHED

ULED ARRIVAL + -0.003901765\*ARRIVAL TIME

+ -0.065862800\*ARRIVAL DELAY

+ -0.001147727\*DIVERTED + -

0.009343250\*CANCELLATION REASON +

-0.002277167\*AIR SYSTEM DELAY + -

0.000011740\*SECURITY DELAY + -

0.009025500\*AIRLINE DELAY + -

0.010285443\*LATE AIRCRAFT DELAY + -

0.002022624\*WEATHER DELAY))