Overview of Logistic Regression

Logistic Regression

Based on Chew C. H. (2020) textbook: AI, Analytics and Data Science. Vol 1., Chap 7.

Objective

1. Apply an Analytics Model that can predict a Categorical Outcome Variable Y.

2. How to Identify & Quantify High Risk Factors.

Content

- Logistic Regression Model for Y with 2 outcomes (Binomial)

- Odds

- Odds Ratios and Odds Ratio Confidence Interval

- Logistic Regression Model for Y with 3 or more outcomes (Multinomial)

Next: The problem with Categorical Y

• Understand the problem.

• Understand why Logistic Regression is a Solution to that problem.