Al Generated Study Notes

- **Logistic Regression: Brief Overview**
- * **Purpose:** Predicts the probability of a binary outcome (0 or 1). Instead of predicting the outcome directly like linear regression, it predicts the *chance* of a specific outcome.
- * **Sigmoid Function:** Transforms the linear equation's output to a probability between 0 and 1. This 'S-shaped' curve is crucial.
- * **Key Parameters:** Coefficients (like slopes in linear regression) determine the impact of each input feature. An intercept is also present.
- * **Cost Function:** Measures the difference between predicted probabilities and actual outcomes.

 Commonly uses log-loss.
- * **Optimization:** Algorithms like Gradient Descent find the best parameters that minimize the cost function.
- * **Evaluation:** Metrics like accuracy, precision, recall, F1-score, and AUC-ROC assess model performance.
- * **Key Assumptions:**
 - * Binary outcome variable.
 - * Little or no multicollinearity among predictor variables.
 - * Linear relationship between predictors and the log-odds of the outcome.

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