Logisitic Regression Concept Map Name: Towhid Khan Independent **David Dew Mallick** Two categorical distinct Md Mahadi Hasan and dependent dependent Outcomes results variable binary Two Date: 27 - 10 - 22 Ordered two or more Outcomes Depented categories Variables Maps value asymptotic between 0 and 1 boundaries Multinomial Binary Sigmoid Categorization mean squared error Ordinal Function Types Image Segmentaion **Gradient Descent Functions Cost Function** Applications Handwriting Recognition Logistic non-convex function Regression of parameters Decision Boundary Healthcare Fast at Classifying Advantages Interepret model Coeeficents continuous input How it Works Disvantages numeric(0-1) Easier to implement hyperplane Over Assumption of Linearity fitting Linear Boundaries yes/no,0/1 decision Boundary