

Day 12 — Machine Learning Models & Case Studies

Today's Agenda

- ✓ Machine Learning Case Study Multiple Logistic Regression
- ✓ Non Parametric Machine Learning Models
- Classification using KNN
- ✓ Machine Learning Case Study Classification Analysis using KNN

Case Study

☐ Case Study #2 — Multiple Logistic Regression - Special Assistance Area Prediction (City with Poor Health Conditions)

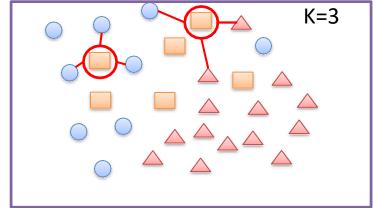
Non Parametric Machine Learning Models

Supervised ML Models (Non - Parametric) - Classification Models – K Nearest Neighbor (KNN) –

Classifying objects into different classes, drawing Boundaries between groups. Classification is used when dependent variable is

categorical. KNN works on majority vote concept.

- Select some value for K
- 2. Select 1 unknown object 'o' to be classified
- 3. Search for K nearest neighbors for the unknown object '0'
- 4. Check for the most occurring group type for among neighbors
- Type of 'o' = most occurring group type
- 6. Repeat this for all the objects of unknown class/type



Case Study

☐ Case Study #3 — Classification Analysis — Prostate Cancer Tumor Classification

