

## **Feature Selection Results for k=15:**

### **Chi-Square Features(15)**

- Waist (inch)
- Age (yrs)
- Weight (Kg)
- Follicle No. (R)
- Fast food (Y/N)
- Pimples(Y/N)
- AMH(ng/mL)
- Follicle No. (L)
- Skin darkening (Y/N)
- Hair loss(Y/N)
- hair growth(Y/N)
- Cycle(R/I)
- Cycle length(days)
- Weight gain(Y/N)
- Hip(inch)

### **Pearson Features(15)**

- Waist (inch)
- Age (yrs)
- Weight (Kg)
- Follicle No. (R)
- Fast food (Y/N)
- Pimples(Y/N)
- AMH(ng/mL)
- Follicle No. (L)
- Skin darkening (Y/N)
- Hair loss(Y/N)
- hair growth(Y/N)
- Cycle(R/I)
- Cycle length(days)

- Weight gain(Y/N)
- Hip(inch)

#### **MRMR Features(15)**

- Follicle No. (R)
- Fast food (Y/N)
- FSH/LH
- I beta-HCG(mIU/mL)
- Pimples(Y/N)
- Skin darkening (Y/N)
- Follicle No. (L)
- II beta-HCG(mIU/mL)
- Hair loss(Y/N)
- AMH(ng/mL)
- hair growth(Y/N)
- PRG(ng/mL)
- Cycle(R/I)
- Cycle length(days)
- Weight gain(Y/N)

#### **Relief Features(15)**

- Follicle No. (R)
- Fast food (Y/N)
- Pregnant(Y/N)
- Pimples(Y/N)
- Reg.Exercise(Y/N)
- Skin darkening (Y/N)
- Follicle No. (L)
- Hair loss(Y/N)
- II beta-HCG(mIU/mL)
- AMH(ng/mL)
- hair growth(Y/N)
- Cycle(R/I)

- Cycle length(days)
- Weight gain(Y/N)
- Hip(inch)

#### **Ensemble Features(11)**

- Follicle No. (R)
- Fast food (Y/N)
- Pimples(Y/N)
- AMH(ng/mL)
- Skin darkening (Y/N)
- Follicle No. (L)
- Hair loss(Y/N)
- hair growth(Y/N)
- Cycle(R/I)
- Cycle length(days)
- Weight gain(Y/N)