Day 6

1. Label Encoding
   Removed sub_area
   MinMax Scaling
   Forward Feature Selection (n=14)
   14 features
   Lasso Regression (alpha=0.5, random_state=42)

2. Label Encoding
   Removed sub_area
   MinMax Scaling
   270 features
   Lasso Regression (alpha=0.5, random_state=42)

3. One-Hot Encoding
   Removed sub_area
   p-Value based Filter
   87 features
   Lasso Regression (alpha=0.5, random_state=42)

4. . One-Hot Encoding
   Removed sub_area
   p-Value based Filter
   PCA (n=10)
   56 features
   Polynomial With Interaction(2)
   Lasso Regression (alpha=0.5, random_state=42)

5. One-Hot Encoding
   Removed sub_area
   p-Value based Filter
   PCA (n=10)
   66 features
   Polynomial Without Interaction(2)
   Lasso Regression (alpha=0.5, random_state=42)

6. One-Hot Encoding
   Removed sub_area
   Variance based Filter
   1129 features
   Polynomial With Interaction(2)
   Lasso Regression (alpha=0.5, random_state=42)

7. One-Hot Encoding
   Removed sub_area

Variance based Filter

820 features

Polynomial Without Interaction(2)

Lasso Regression (alpha=0.5, random_state=42)

8. Label Encoding

Removed sub_area

MinMax Scaling

PCA (n=10)

66 features

Polynomial Without Interaction(2)

Lasso Regression (alpha=0.5, random_state=42)

9. Label Encoding

Removed sub_area

MinMax Scaling

PCA (n=10)

56 features

Polynomial With Interaction(2)

Lasso Regression (alpha=0.5, random_state=42)

10. One-Hot Encoding

Removed sub_area

Standard Scaling

Forward Feature Selection (n=14)

66 features

Polynomial Without Interaction(2)

Lasso Regression (alpha=0.5, random_state=42)