Mansurjonov Nurmuhammad

Loyiha Maqsadi

Ushbu loyihada biz hyperperment tuningni negative effectini tuzatishni (KNN,Logistic Regression va Random Forest Regressor da korib chiqdik

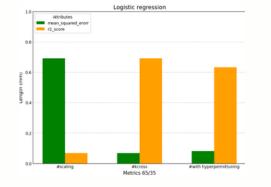
Qilingan bosqichlar

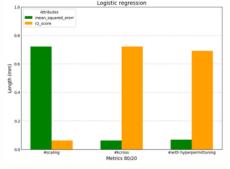
Biz avvalo datani ornatdik va tushib qolgan qiymatlarni toldirib barchasi integior xolatiga otkazib oldik .Keyin datani input va output xolatiga otkazib train va test uchun ajratib oldik. Undan song scaling ,k-fold cross-validation va Hyperparameter Tuning qilib barchasidan chiqgan accuracy scorelarni taqqosladik va Hyperparameter Tuningni negative effectini korib chiqdik

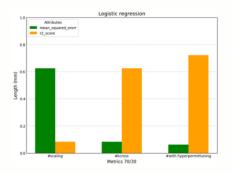
Hyperparameter Tuningni negative effectini togirlash uchun qilingan bosqichlar

Hyperparameter Tuningni negative effectini togirlash uchun biz avvalo datadan tushub qolgan qiymatlarni qaytadan tekshirib chiqdik.Keyin esa train va test uchun ajratilgan datani qaytadan bolib chiqadik masalan: 70/30,65/35 va 80/20 shu shaklda, va boshqa modellarda ham qollab kordik

Logistic Regression Natijalar

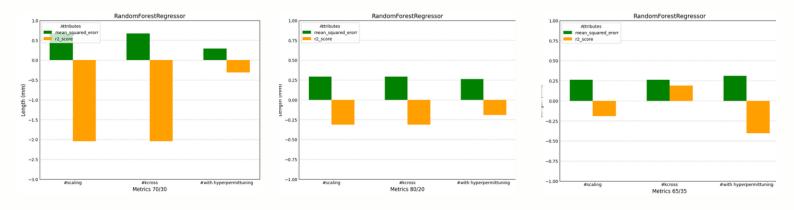






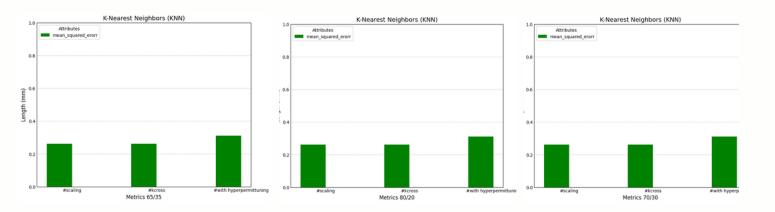
Bu yerda biz Hyperparameter Tuningni negative effectini tuzatish maqsadida train va test uchun ajratilgan data turli xilda bolingan xolatini korishimiz mumkun masalan 70/30,65/35 va 80/20. Natijani mean squared error bilan r2 score orqali aniqladik

Random Forrest Regressor Natija



Random Forrest Regressor model orqali Hyperparameter Tuningni negative effectini tuzatish maqsadida train va test uchun ajratilgan data turli xilda bolingan xolatini korishimiz mumkun masalan 70/30,65/35 va 80/20. Natijani mean squared error bilan r2 score orqali aniqladik

K-Nearest Neighbors (KNN) Natija



K-Nearest Neighbors (KNN) model orqali Hyperparameter Tuningni negative effectini tuzatish maqsadida train va test uchun ajratilgan data turli xilda bolingan xolatini korishimiz mumkun masalan 70/30,65/35 va 80/20. Natijani accuracy score orqali aniqladik

Xulosa

Xulosa:Biz Hyperparameter Tuningni negative effectini barcha modellar orqali sinab kordik va uni tuzatishga harakat qilib kordik. Eng yahshi natijani esa Logistic Regression modelida kormshimiz mumkun.