

1-Month Prediction R² Heatmap by Day and Model

Model

XGBoost

0.8265704643503172372278375369074606633793691670459276667372017404738685543699566610473855076226835926676394530771067705657

Random Forest

0.7333907699469463255578075995407667696597554638662508504565494681599607576640583512698610670855946785685490507108635622

Linear Regression

0.7559206994564070582718646466755140707226494646689570473876774966859946576600386406963016204769475252945506886807570608

LASSO

0.842340372356372571027696554426525801702690164565968492675765738748592670620752257559016786901642770761264669671069695

Elastic Net

0.710442871035660756494760161046837007670169878370361035985489707497706726622689710662663946066696894540773757076667501643655697

R²

0.8

0.7

0.6

0.5

0.4

0.3

Days Relative to Surgery

Day -7
Day -6
Day -5
Day -4
Day -3
Day -2
Day -1
Day 0
Day 1
Day 2
Day 3
Day 4
Day 5
Day 6
Day 7
Day 8
Day 9
Day 10
Day 11
Day 12
Day 13
Day 14
Day 15
Day 16
Day 17
Day 18
Day 19
Day 20
Day 21
Day 22
Day 23
Day 24
Day 25
Day 26
Day 27
Day 28
Day 29