

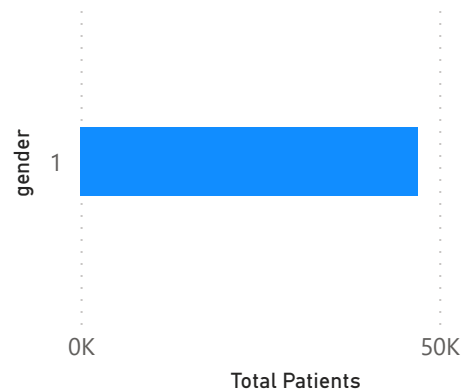
47K

Total Patients

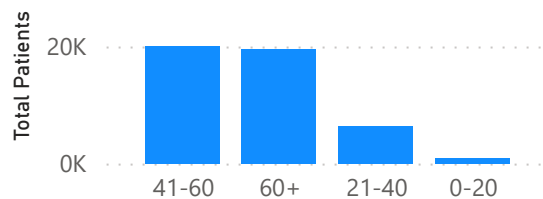
11.06%

Readmission Rate

Total Patients by gender



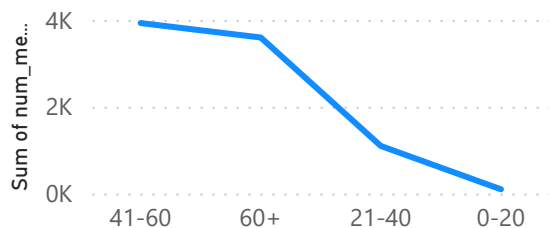
Total Patients by Age Group



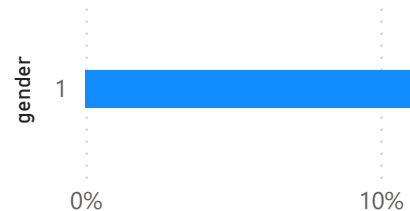
60.10

Average Age

num_medication by age



Readmission Rate by gender



Gender

☐ 0

☒ 1

age

All

diag_1_category

☐ 0

☐ 1

☐ 2

☐ 3

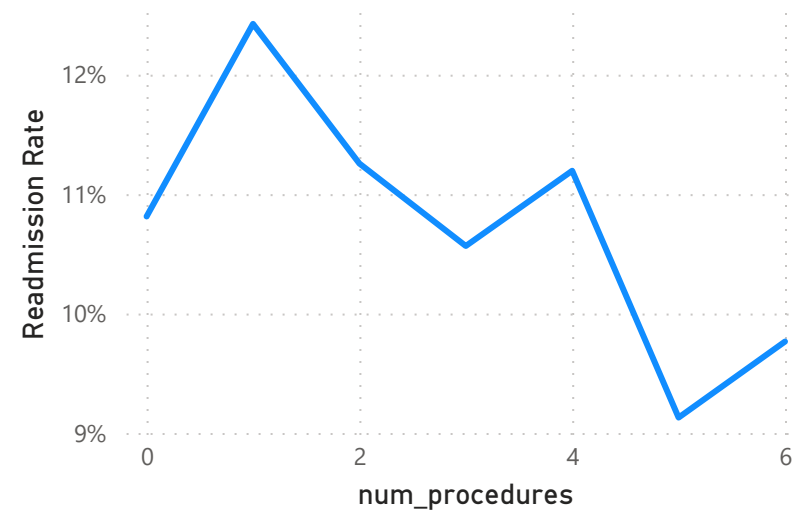
☐ 4

☐ 5

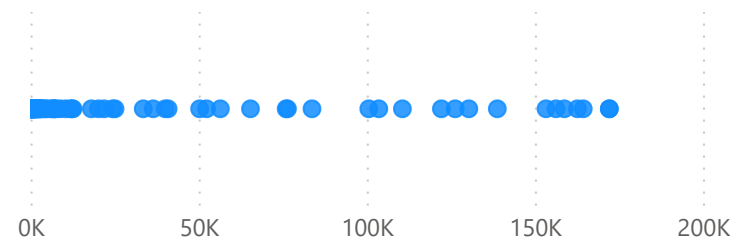
☐ 6



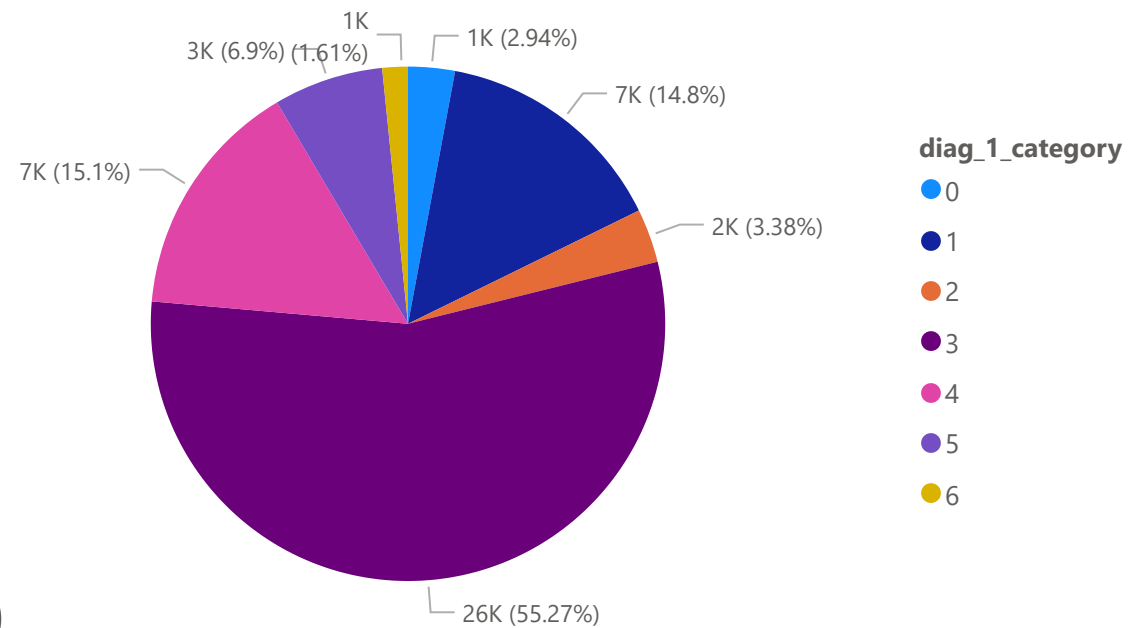
Readmission Rate by num_procedures



Sum of age by num_medications



Total Patients by diag_1_category



Gender

☐ 0

☒ 1

age

All

diag_1_category

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6



Random Forest Accuracy

0.90

Accuracy_RF

0.89

F1_Score_RF

0.93

Precision_RF

0.86

Recall_RF

Decision Tree Accuracy

0.92

Accuracy_DT

0.91

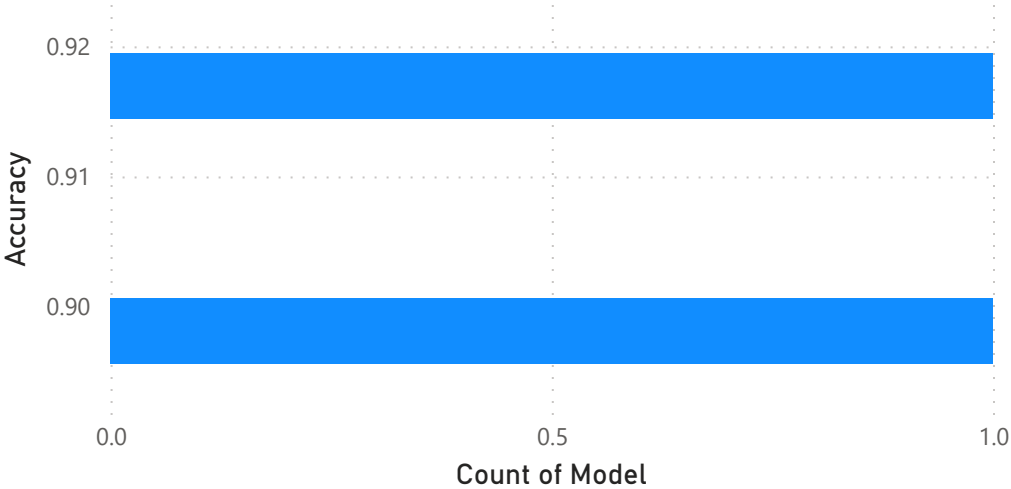
F1_Score_DT

0.98

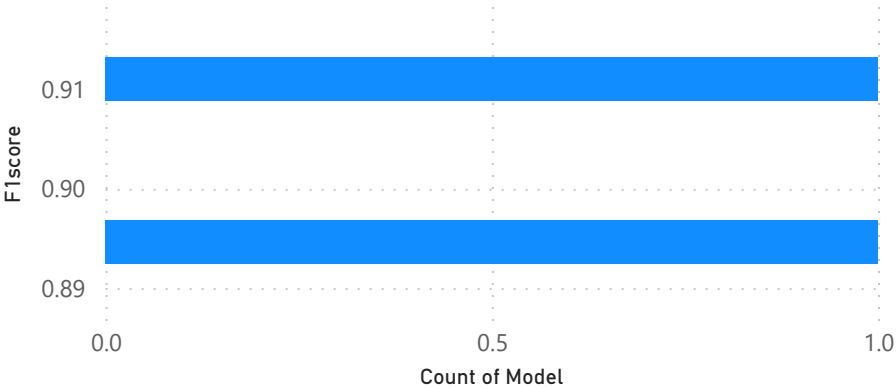
Precision_DT

0.85

Recall_DT



Count of Model by F1score





Decision Tree Confusion Matrix

predicted_dt 0						1					Total				
actual	Sum of patientid	TP_DT	FP_DT	TN_DT	FN_DT	Sum of patientid	TP_DT	FP_DT	TN_DT	FN_DT	Sum of patientid	TP_DT	FP_DT	TN_DT	FN_DT
1	190249319	15246	299	17626	2678	2118072162	15246	299	17626	2678	2308321481	15246	299	17626	2678
0	882549653	15246	299	17626	2678	14711454	15246	299	17626	2678	897261107	15246	299	17626	2678
Total	1072798972	15246	299	17626	2678	2132783616	15246	299	17626	2678	3205582588	15246	299	17626	2678

Random Forest Confusion Matrix

predicted_rf 0						1					Total				
actual	Sum of patientid	TP_RF	FN_RF	TN_RF	FN_RF	Sum of patientid	TP_RF	FN_RF	TN_RF	FN_RF	Sum of patientid	TP_RF	FN_RF	TN_RF	FN_RF
0	836509659	15503	2421	16695	2421	60751448	15503	2421	16695	2421	897261107	15503	2421	16695	2421
1	195933434	15503	2421	16695	2421	2112388047	15503	2421	16695	2421	2308321481	15503	2421	16695	2421
Total	1032443093	15503	2421	16695	2421	2173139495	15503	2421	16695	2421	3205582588	15503	2421	16695	2421

