



DIABETES – Hospital Readmission

Presented By : Alison Park

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Problem** _____

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Business Problem

Hospital readmission for diabetic patients

1. Impact on Patient Health
2. Healthcare Resource Utilization
3. Need for Comprehensive Solutions

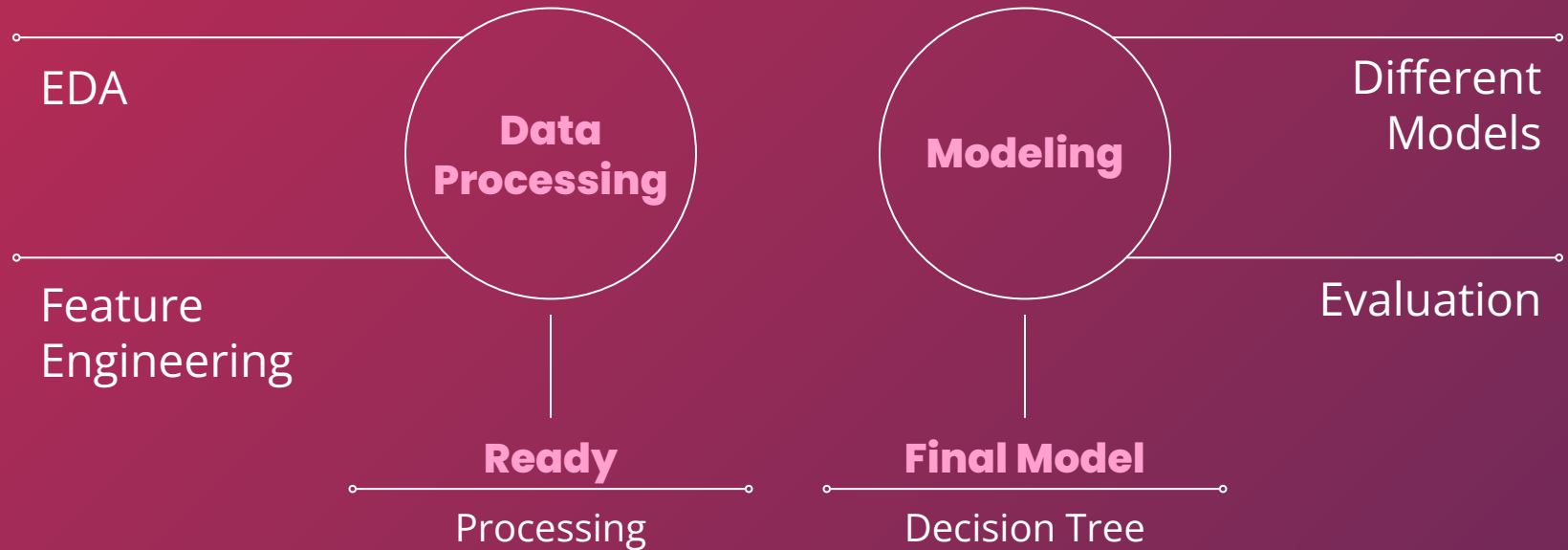


Data

- 10 years (1999-2008) of clinical care at 130 US hospitals and integrated delivery networks
- (101766, 50)
- Strack B, DeShazo JP, Gennings C, Olmo JL, Ventura S, Cios KJ, Clore JN. Impact of HbA1c measurement on hospital readmission rates: analysis of 70,000 clinical database patient records. Biomed Res Int. 2014;2014:781670. doi: 10.1155/2014/781670. Epub 2014 Apr 3. PMID: 24804245; PMCID: PMC3996476.



Methods

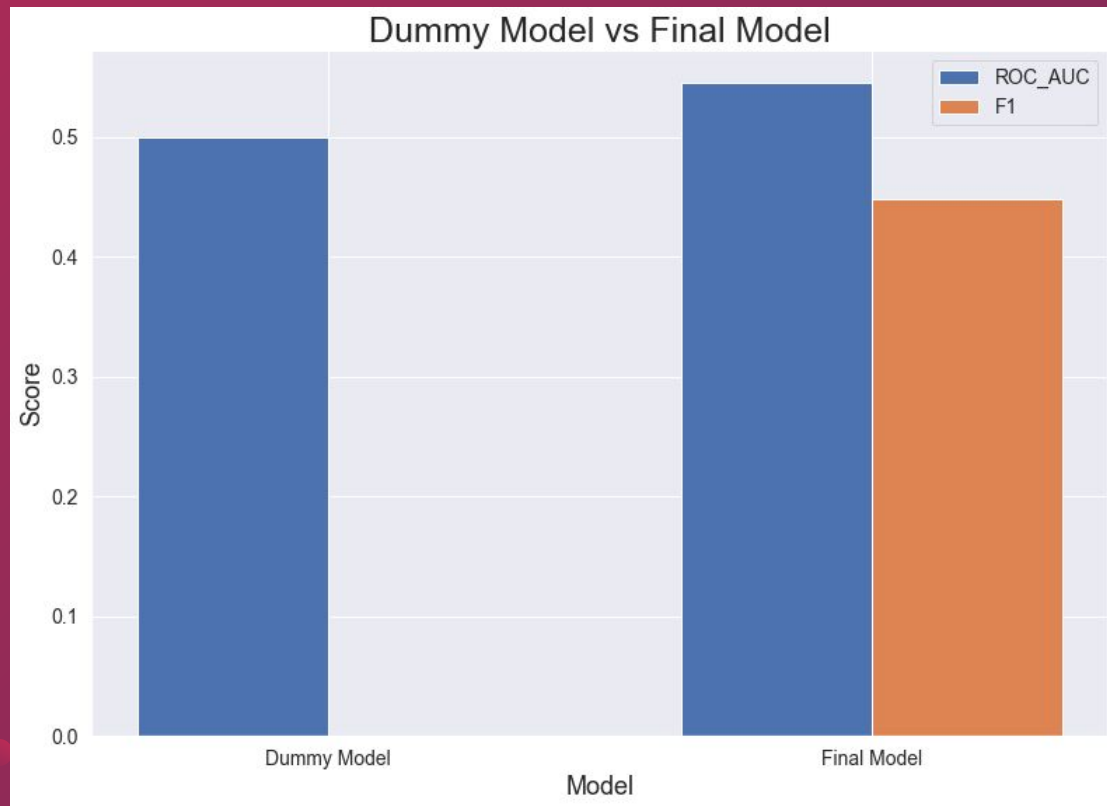


Model

F1

Dummy Model:
0.0000

Final Model:
0.4479



Top features

**Number
Procedures**

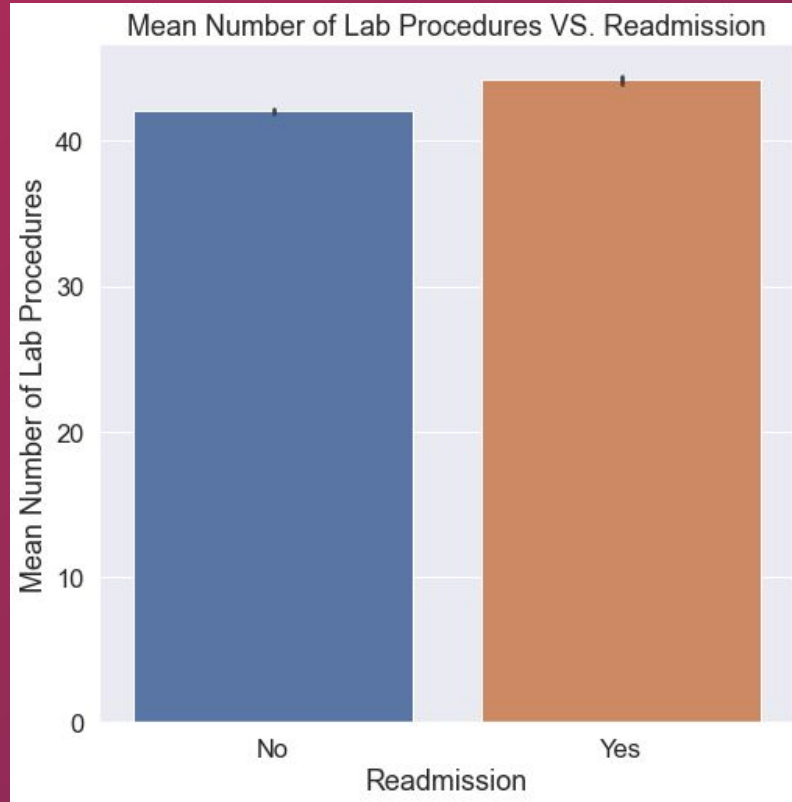
0.0890

**Number of
Medications**

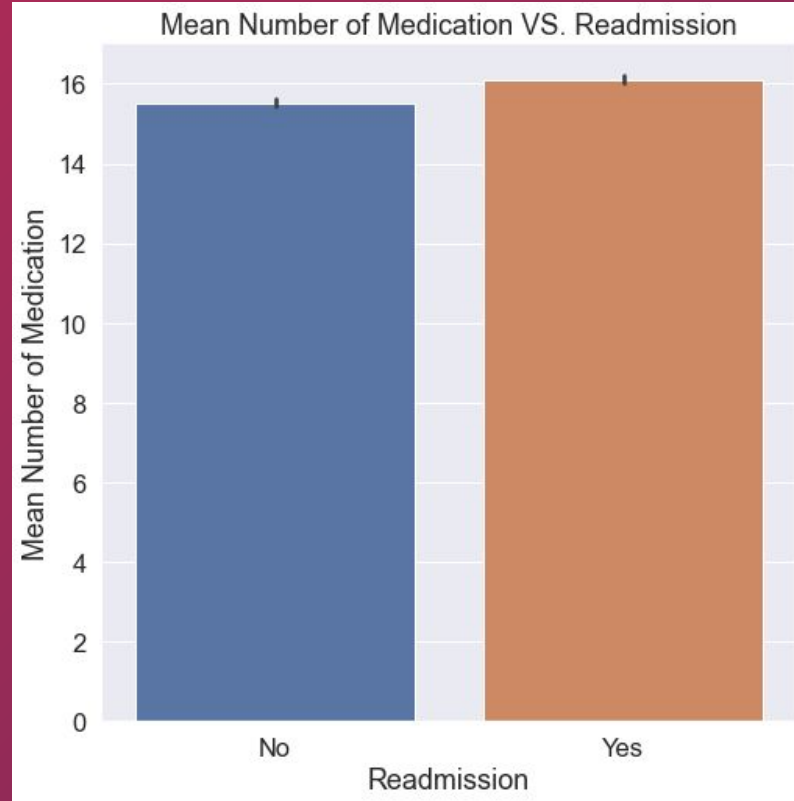
0.0848



Lab Procedures



Number of Medications



Conclusions

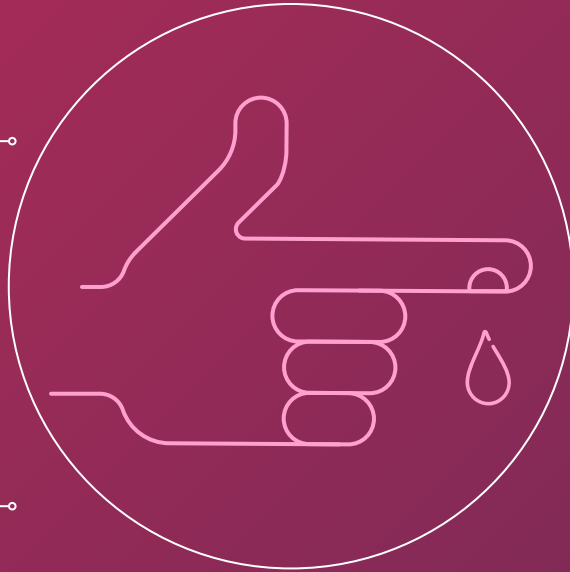
01

F1

Lab

02

Procedures



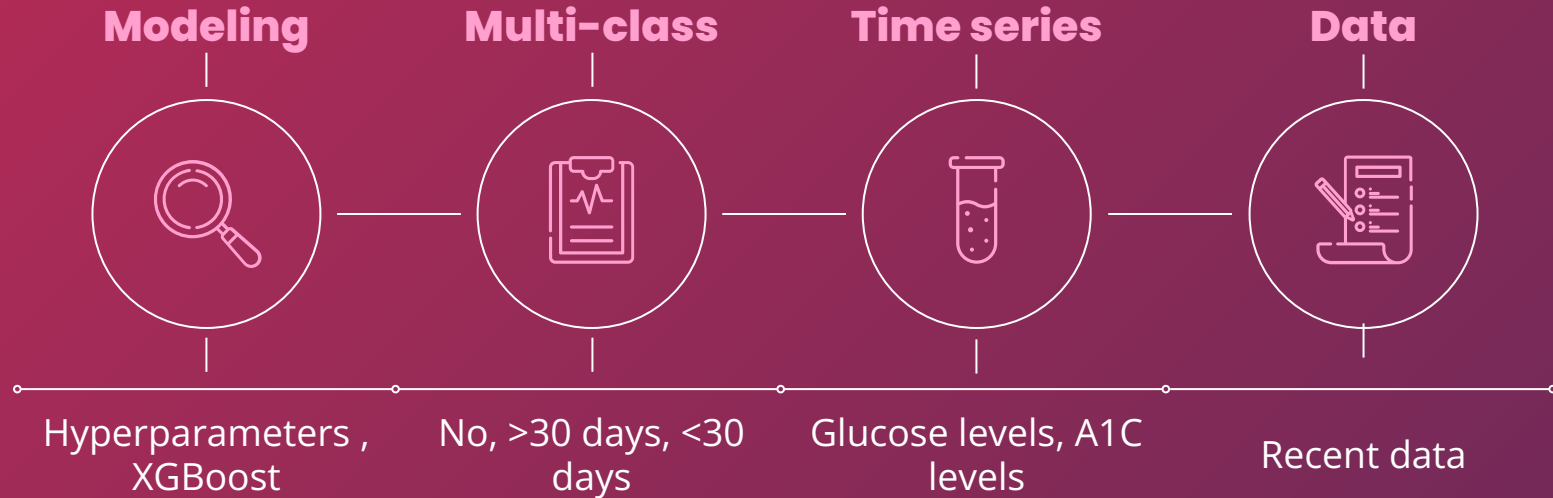
**Number of
Medication**

03

Application

04

Future Investigations



THANKS

Do you have any questions?

alisonsjpark@gmail.com

linkedin.com/in/alison-s-park

<https://github.com/alisonpark3/Diabetic-Hospital-Readmission>



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