



DIABETES – Hospital Readmission

Presented By : Alison Park

About Me

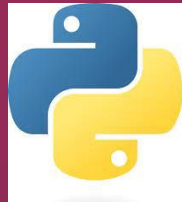


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Problem**

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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

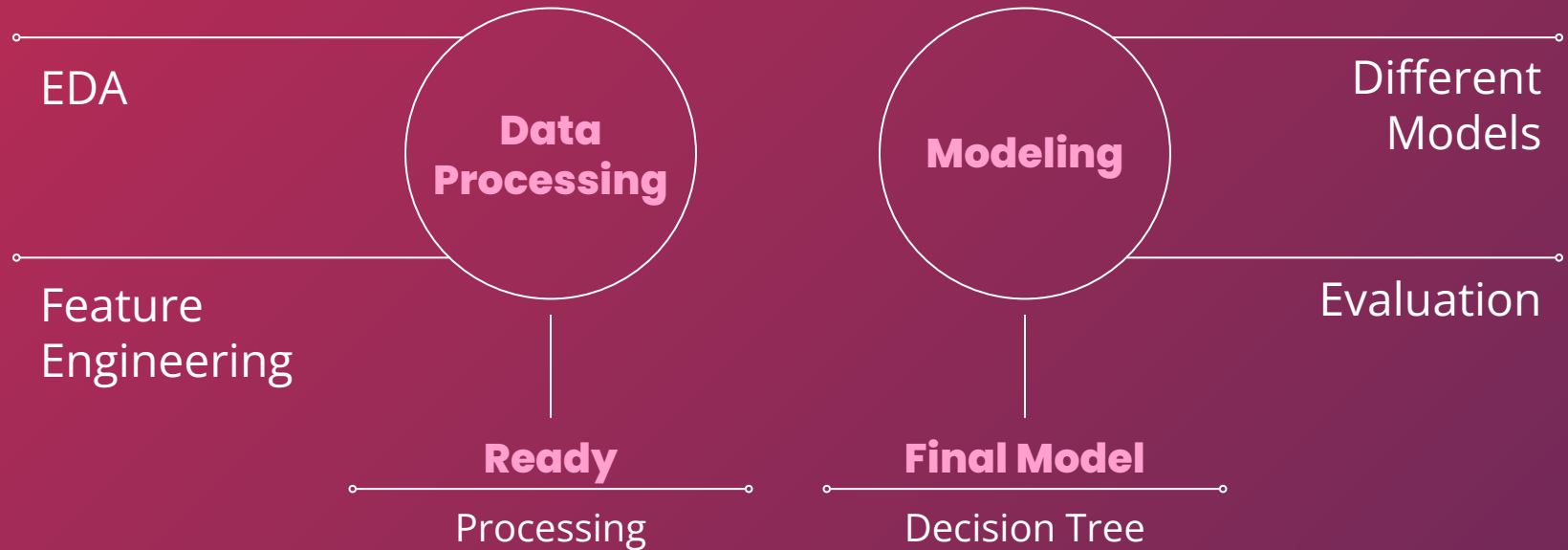


Data

- 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

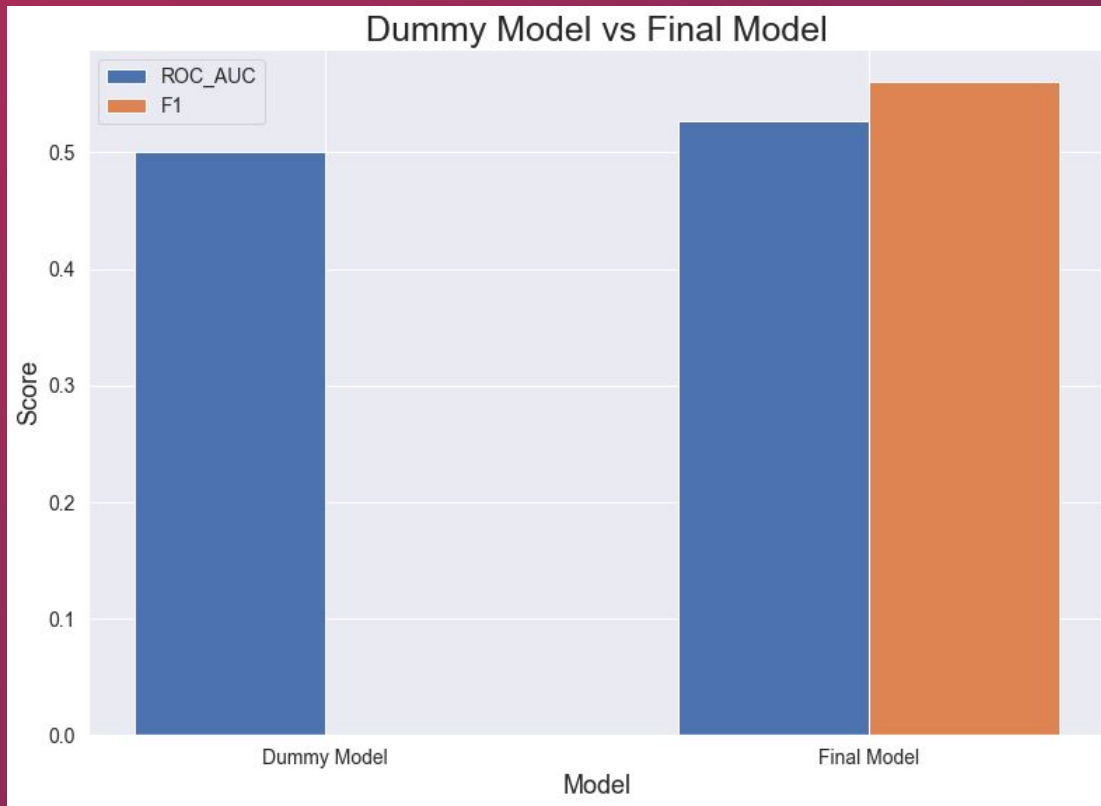


Model

F1

Dummy Model:
0.0000

Final Model:
0.5603



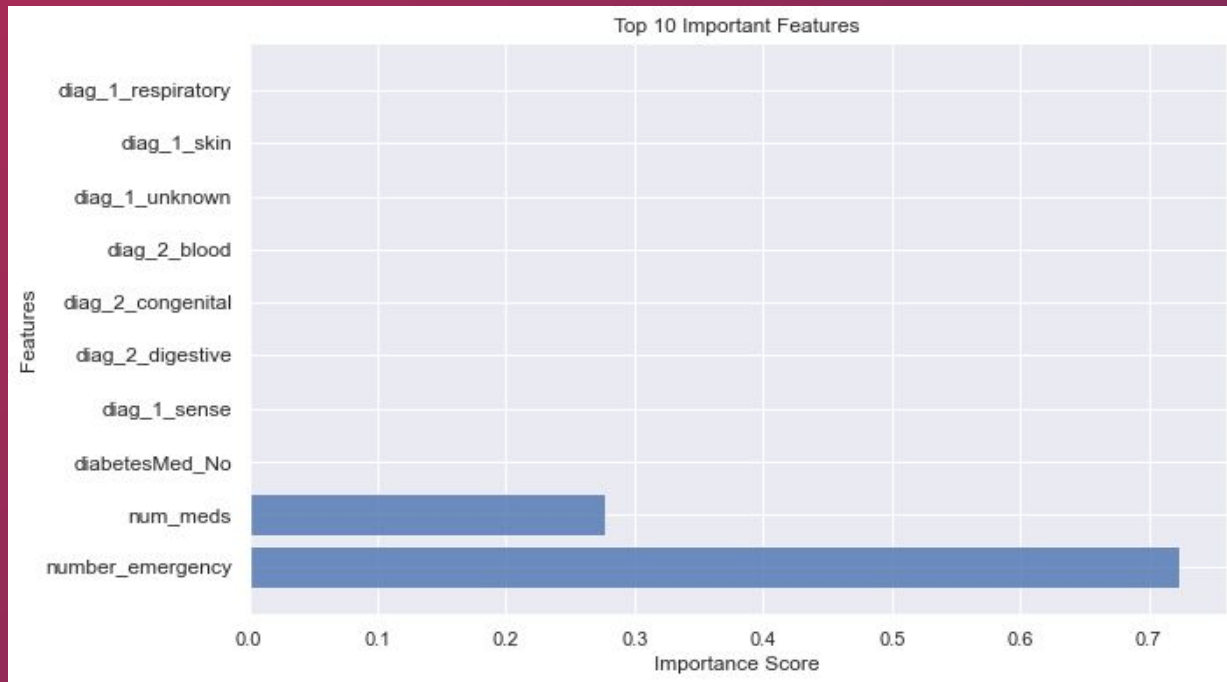
Top features

**Number
emergency**

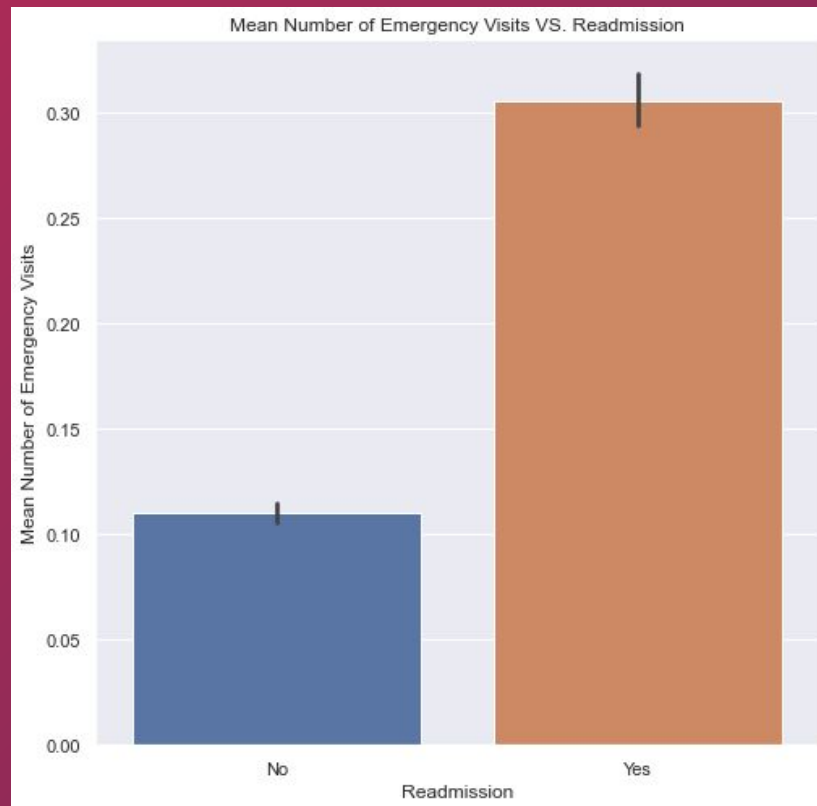
0.7237

**Number of
Medications**

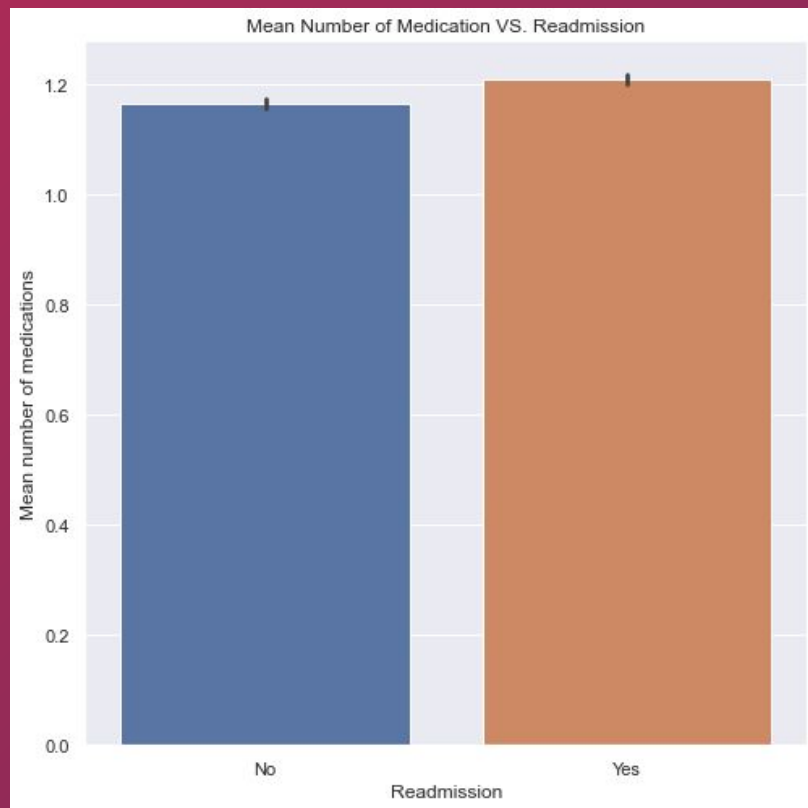
0.2763



Emergency Visits



Number of Medications



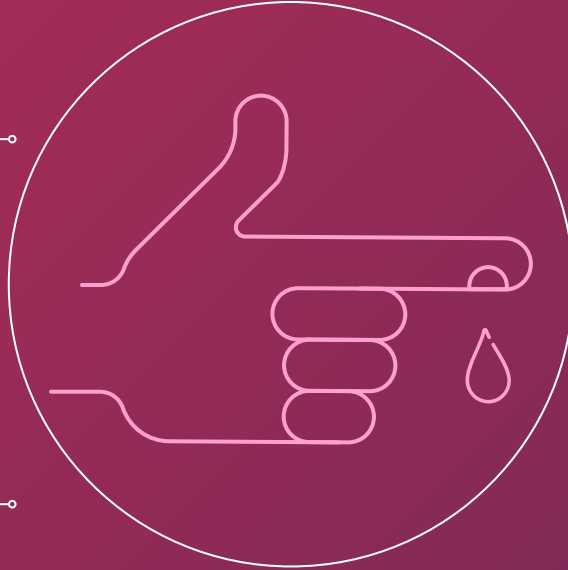
Conclusions

01

F1

02

Emergency
Visits



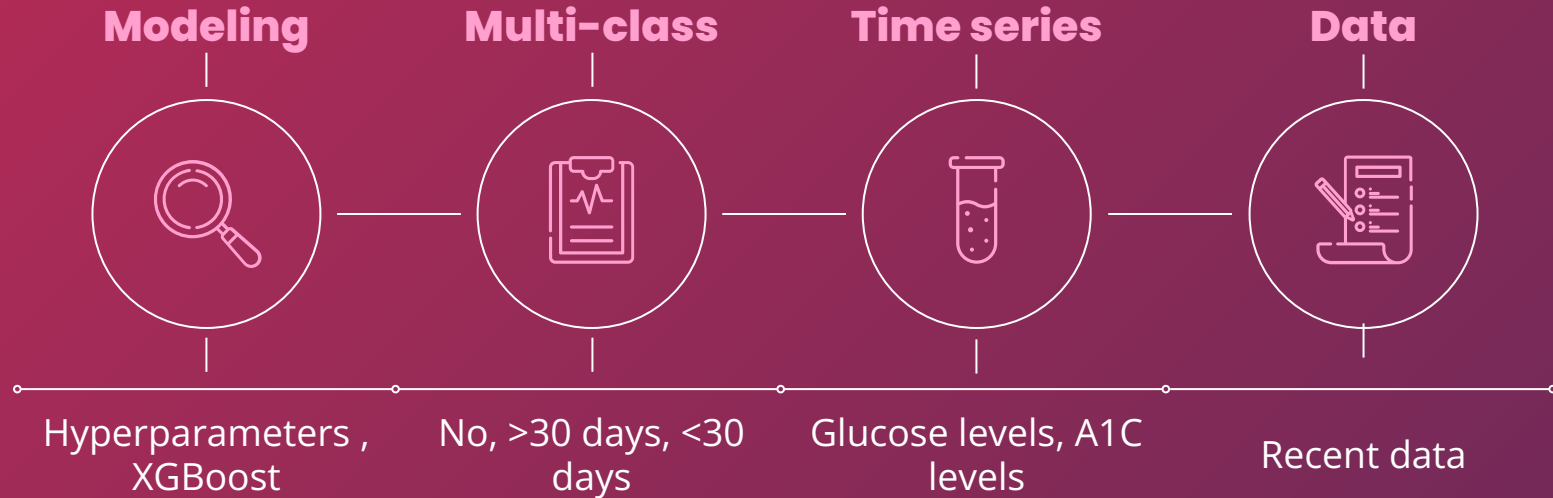
Number of
Medication

03

Application

04

Future Investigations



THANKS

Do you have any questions?

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



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