ReAdMIT-D-

A Data-driven Approach to Predicting Hospital Readmission in Diabetes

Presented By : Alison Park

About Me











TABLE OF CONTENTS

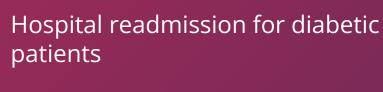
Business
Problem

02 Data

03 Model

O4. Conclusions





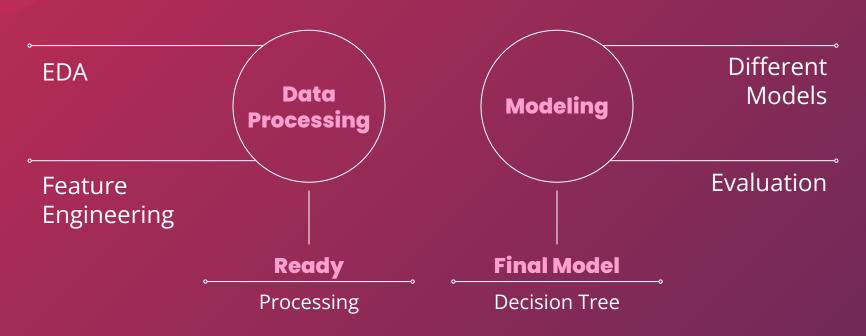
- 1. Impact on Patient Health
- 2. Healthcare Resource Utilization
- 3. Need for Comprehensive Solutions

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

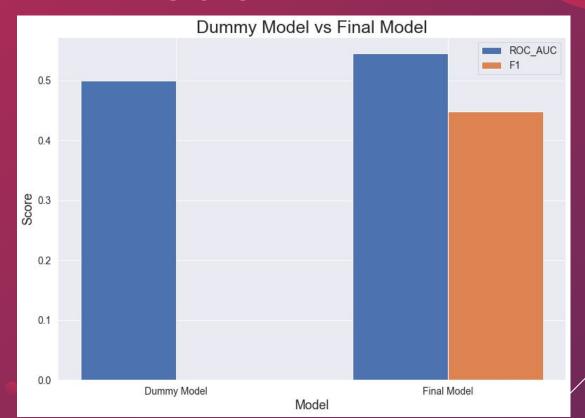


Model

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Dummy Model: 0.0000

Final Model: 0.4479



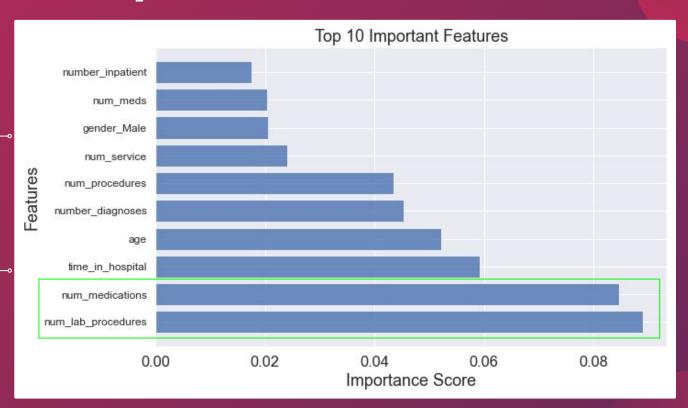
Top features

Number Procedures

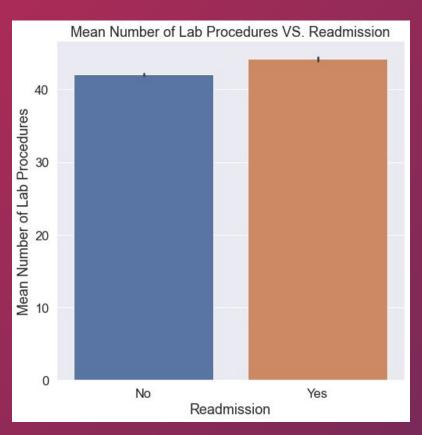
0.0890

Number of Medications

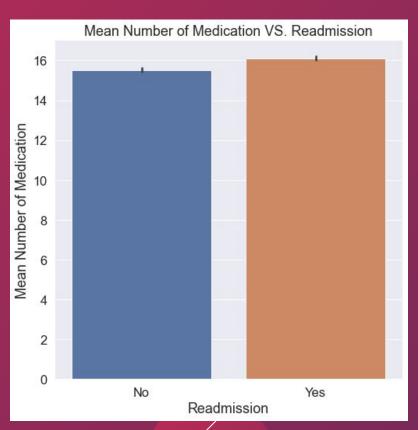
0.0848



Lab Procedures



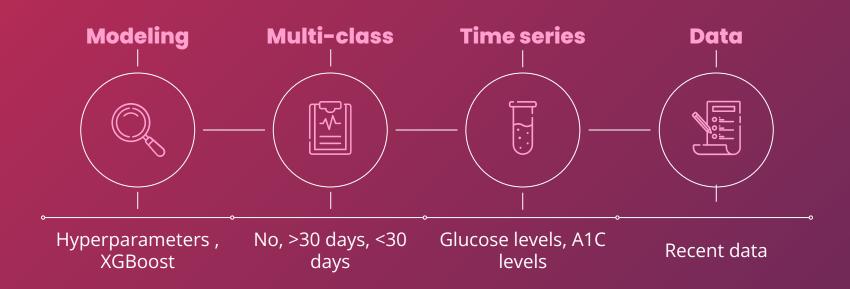
Number of Medications



Conclusions



Future Investigations



THANKS

Do you have any questions?

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https://github.com/alisonpark3/Diabetic-Hospi tal-Readmission



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