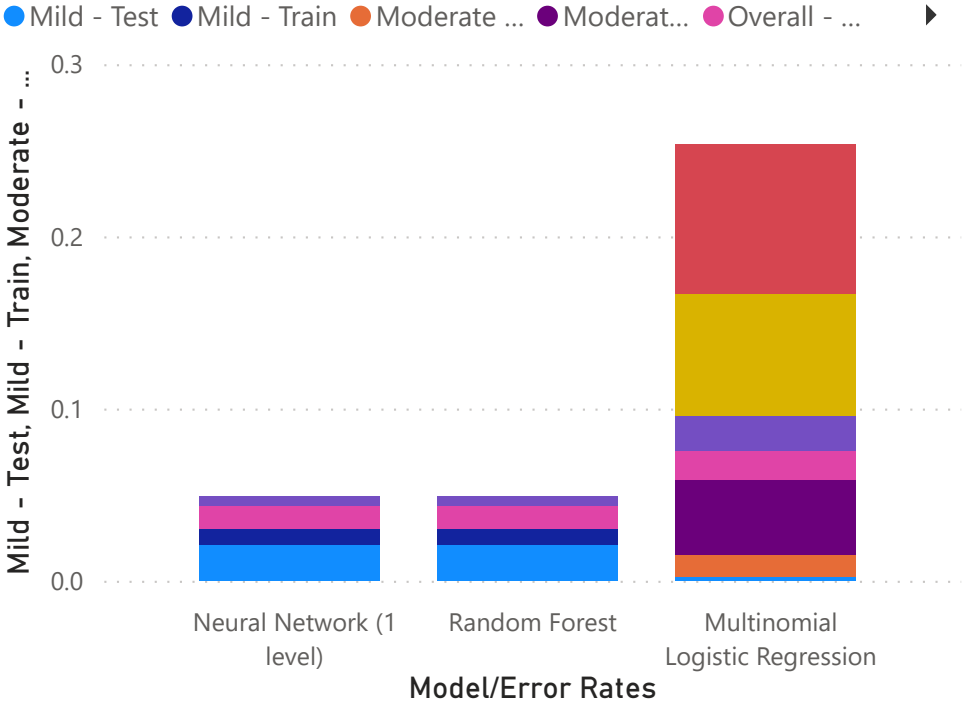
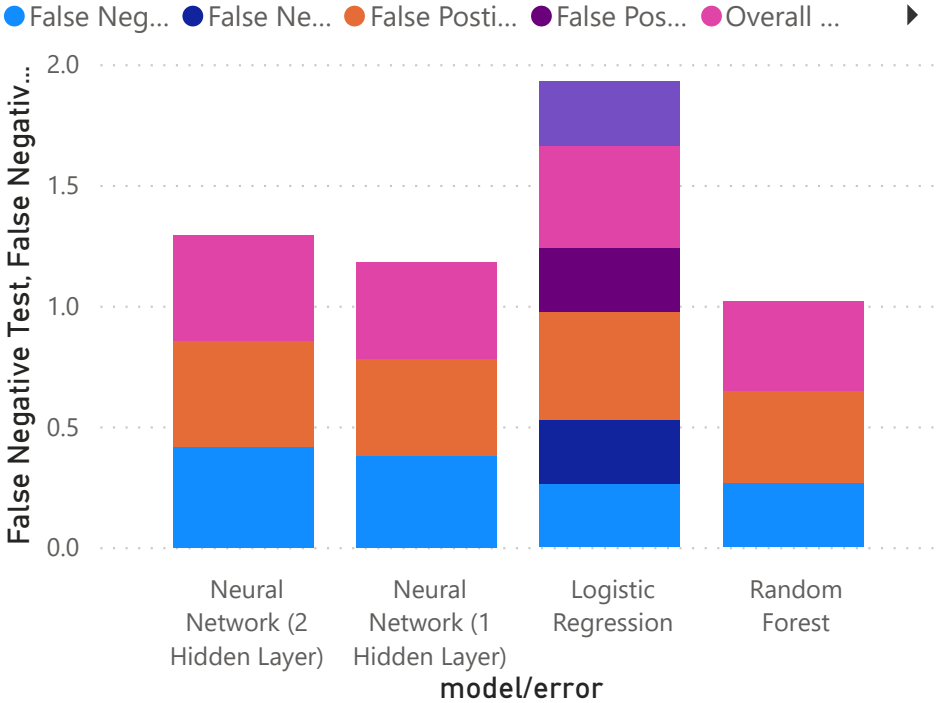


Severity Prediction Model (SPM) Error Rates



ICU Admission Model (IAM) Error Rates



IAM Log Reg Model

Top 15 Variables

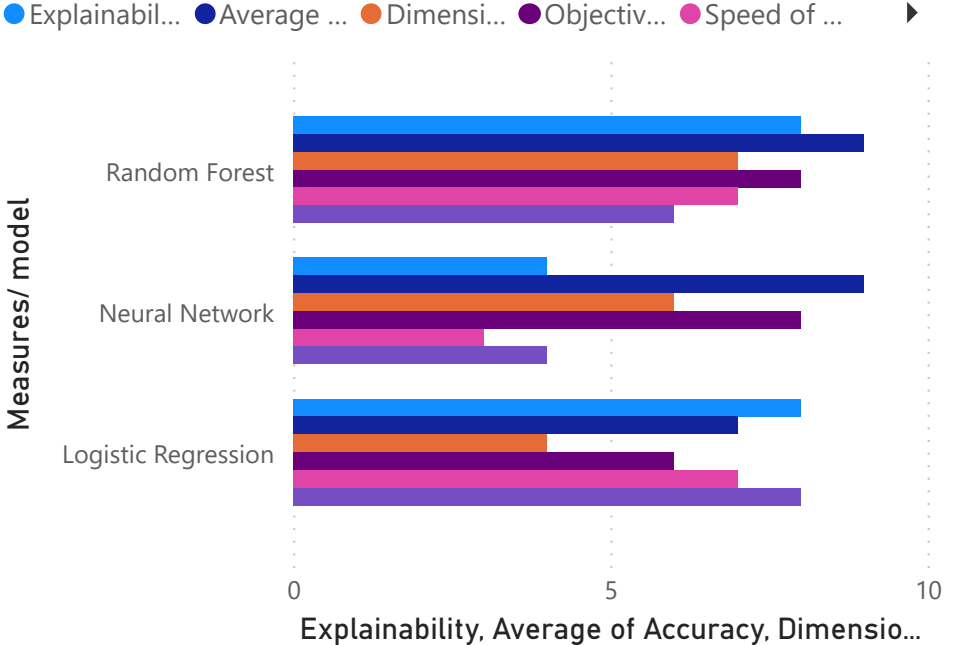
| | |
|---|--------------|
| 1 | Age |
| 2 | Gender |
| 3 | Neutrophiles |
| 4 | BIC Aterial |
| 5 | Leukocytes |

IAM Random Forest

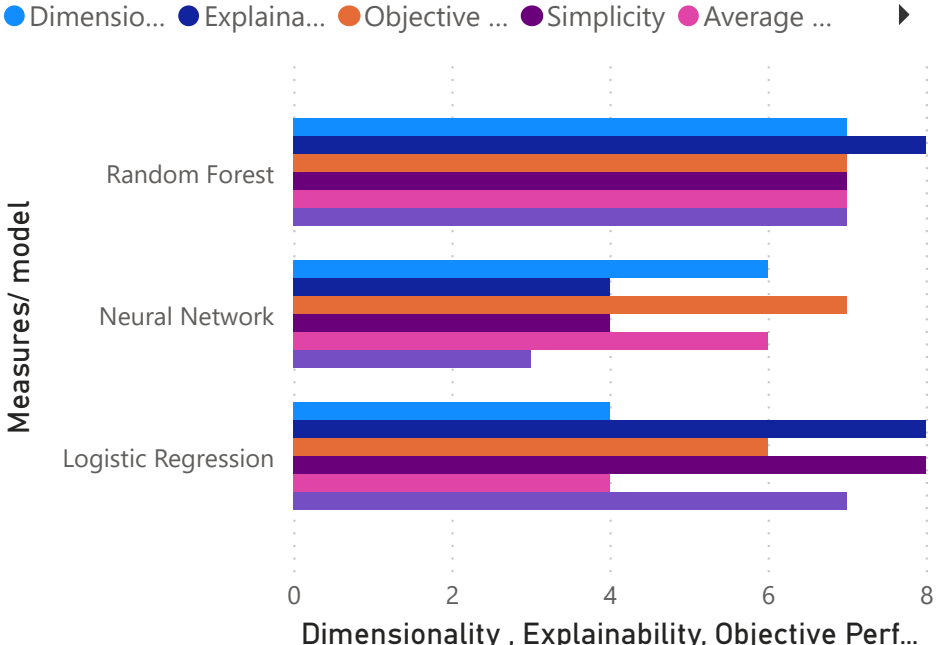
Top 15 Variables

| | |
|---|-------------|
| 1 | Age |
| 2 | Hemoglobin |
| 3 | BIC Venous |
| 4 | Hematocrite |
| 5 | Dimer |

SPM Model Comparison



IAM Model Comparison



SPM Log Reg Top 9 Variables

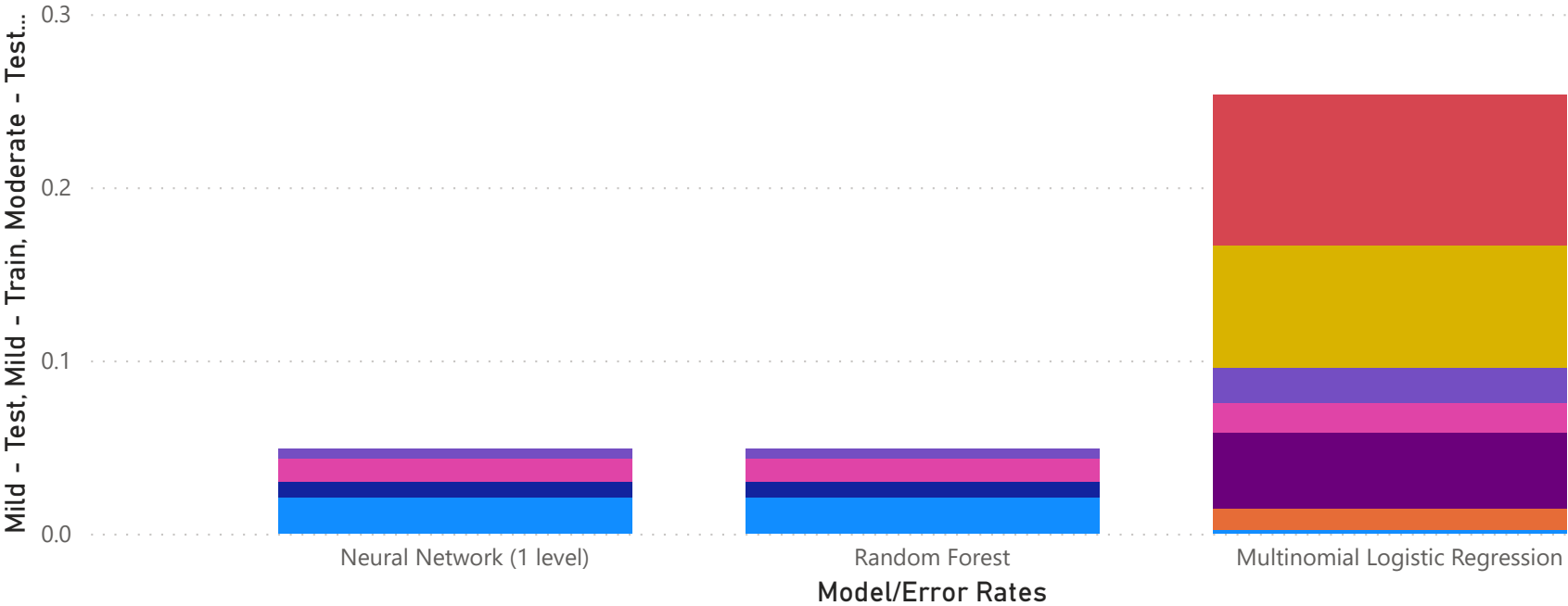
| | |
|---|-------------------------|
| 1 | Temperature |
| 2 | Nasal_congestion |
| 3 | Runny_nose |
| 4 | Difficulty_in_breathing |
| 5 | Contact_with_covid_p... |
| 6 | Gender |

SPM Random Forest Top 9 Variables

| | |
|---|--------------------------|
| 1 | Temperature |
| 2 | Nasal_congestion |
| 3 | Difficulty_in_breathing |
| 4 | Contact_with_covid_pa... |
| 5 | Age |
| 6 | Gender |

Severity Prediction Model (SPM) Error Rates

Mild - Test Mild - Train Moderate - Test Moderate - Train Overall - Test Overall - Train Severe - Train Severe - Test



SPM Log Reg Top 9 Variables

Temperature

1

Nasal_congestion

2

Runny_nose

3

Difficulty_in_breathing

4

Contact_with_covid_pa...

5

Gender

6

Sore_throat

7

Bodypain

8

Age

9

SPM Random Forest Top 9 Variables

Temperature

1

Nasal_congestion

2

Difficulty_in_breathing

3

Contact_with_covid_pa...

4

Age

5

Gender

6

Sore_throat

7

Runny_nose

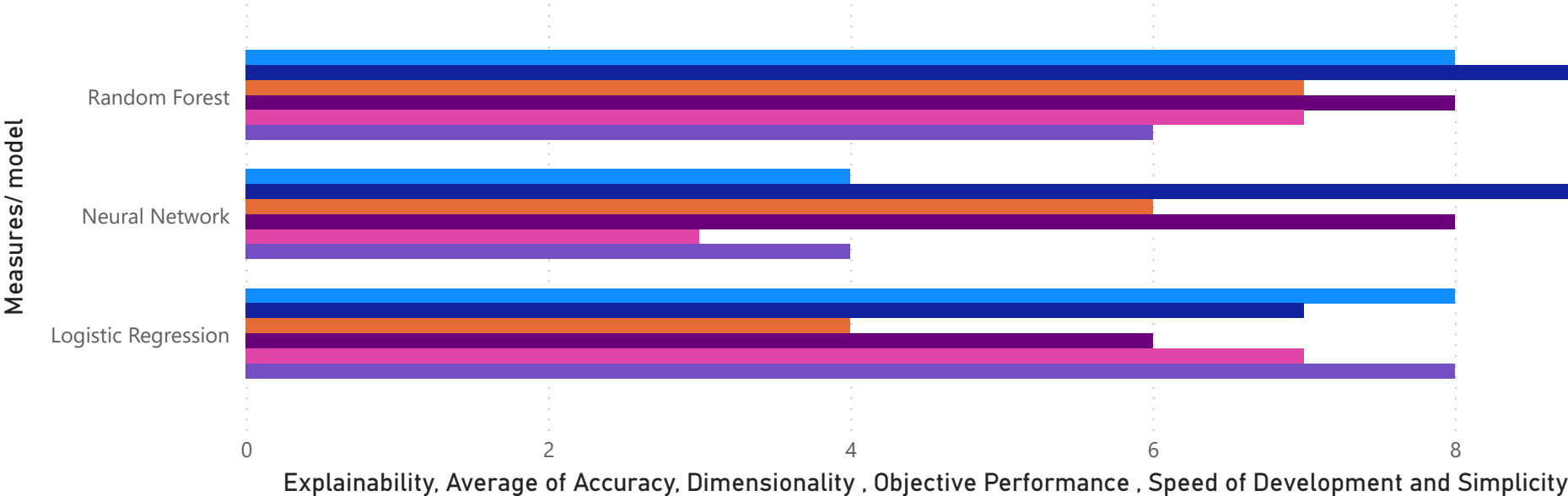
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Bodypain

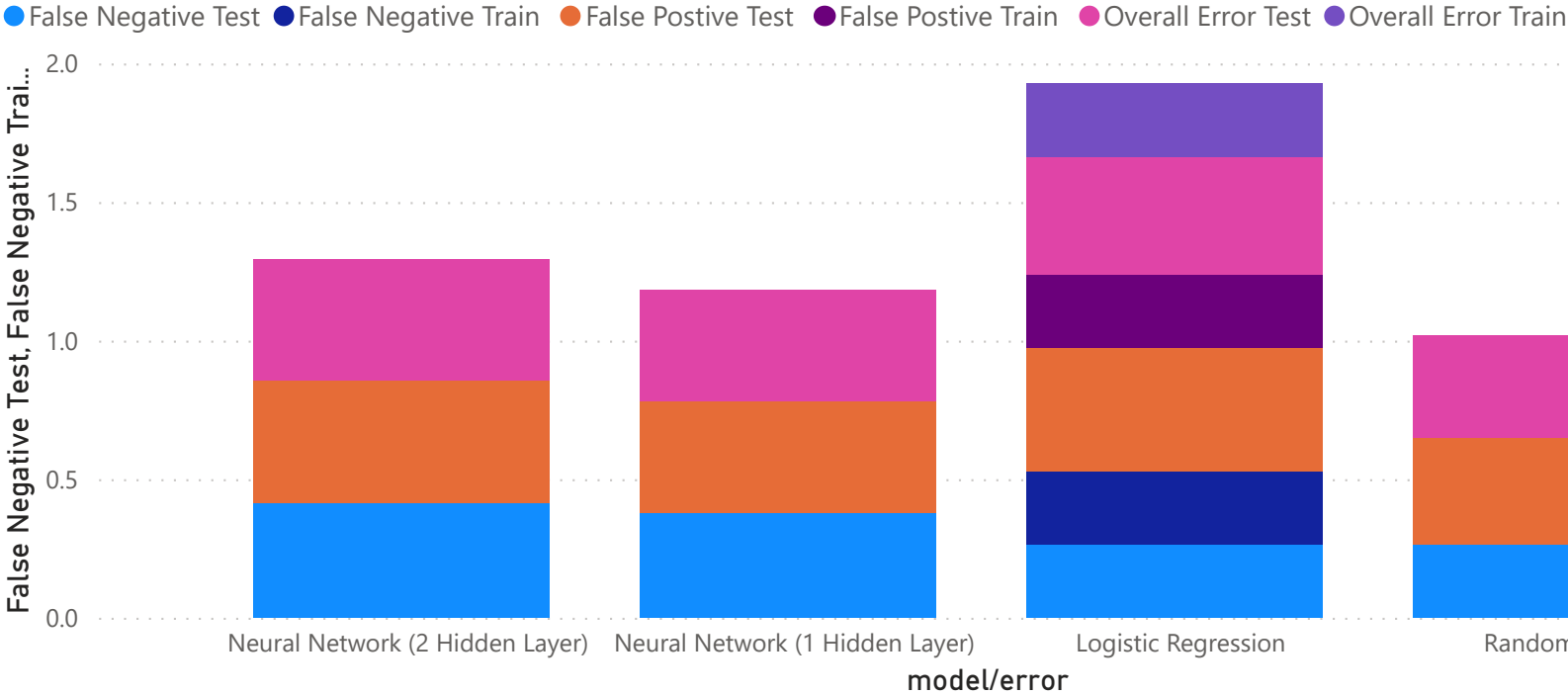
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SPM Model Comparison

Explainability Average of Accuracy Dimensionality Objective Performance Speed of Development Simplicity



ICU Admission Model (IAM) Error Rates



IAM Log Reg Model Top 15 Variables

- 1 Age
- 2 Gender
- 3 Neutrophiles
- 4 BIC Aterial
- 5 Leukocytes
- 6 Platelets
- 7 PCO2 Arterial
- 8 PH Arterial
- 9 Hematocrite
- 10 SATO2 Arterial
- 11 Hemoglobin

IAM Random Forest Top 15 Variables

- 1 Age
- 2 Hemoglobin
- 3 BIC Venous
- 4 Hematocrite
- 5 Dimer
- 6 PCR
- 7 Linfoctos
- 8 TGO
- 9 Neutrophiles
- 10 Glucose
- 11 Billirubin

IAM Model Comparison

