

Pierwszy model na danych z bazy MIMIC-III

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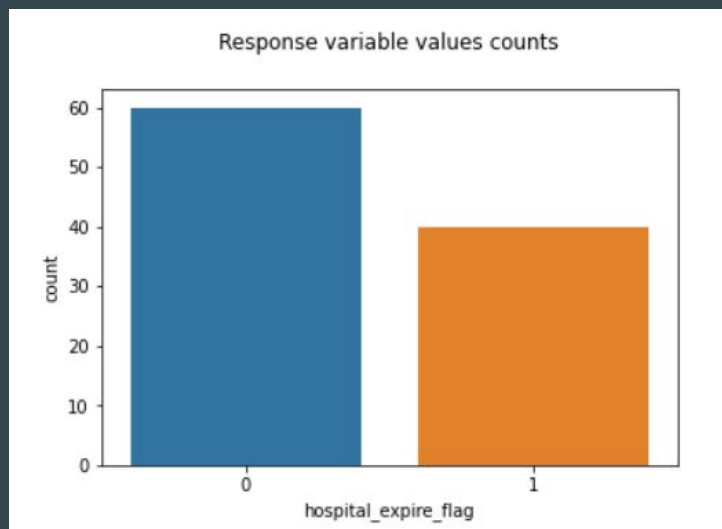
Ada Gąssowska, Elżbieta Jowik

Predykcja zgonu w trakcie hospitalizacji

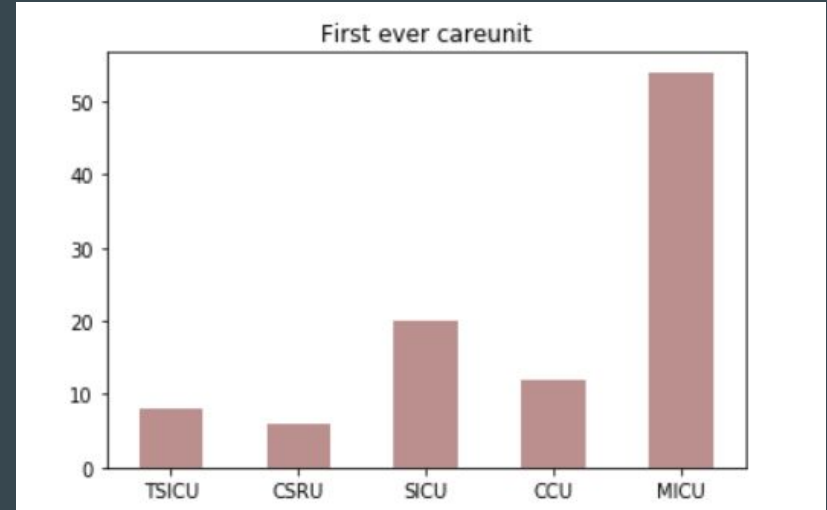
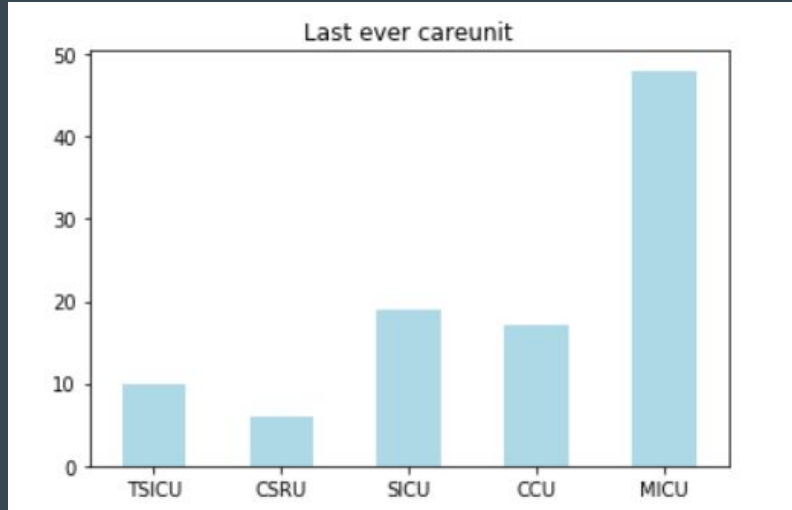
Wykorzystane tabele:

- Admissions
- Callout
- DrgCodes
- ICUSTays
- Patients
- Prescriptions

Rozkład zmiennej objaśnianej

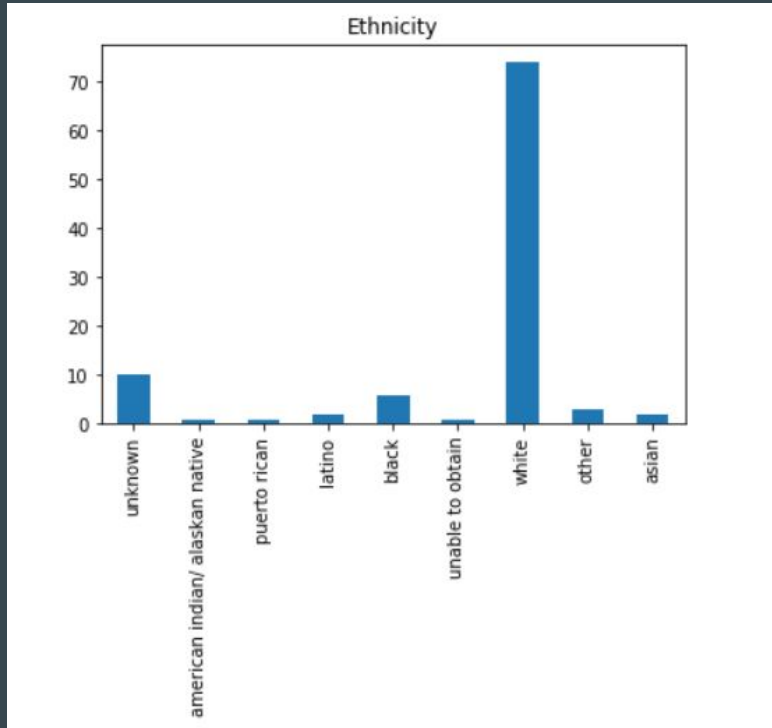


First/last careunit

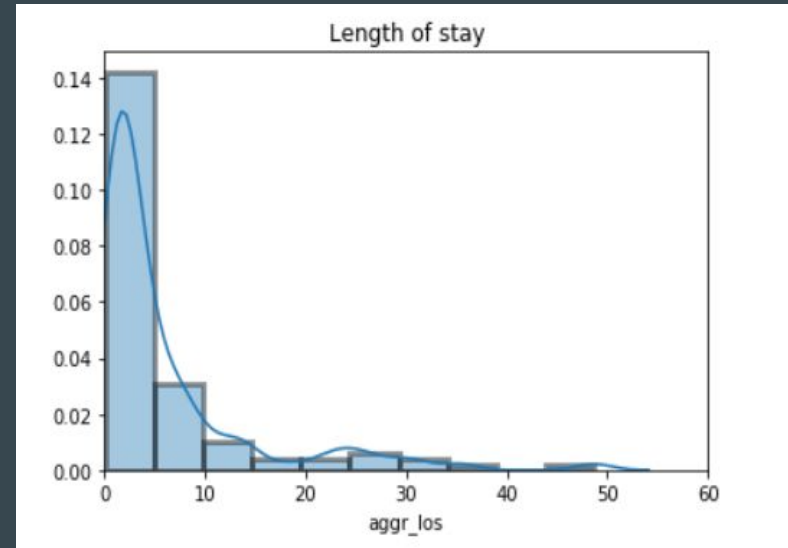


Label encoding

Ethnicity and length of stay



One hot encoding



Zmienna numeryczna

RandomForest - RandomSearch

```
random_grid = {'bootstrap': [True, False],  
               'max_depth': [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, None],  
               'max_features': ['auto', 'sqrt'],  
               'min_samples_leaf': [1, 2, 4],  
               'min_samples_split': [2, 5, 10],  
               'n_estimators': [130, 180, 230]}
```

1	<i># Most accurate parameters</i>
2	rf_random.best_params_

```
{'n_estimators': 130,  
 'min_samples_split': 2,  
 'min_samples_leaf': 1,  
 'max_features': 'auto',  
 'max_depth': 90,  
 'bootstrap': True}
```

Wynik (do poprawy ;))

