Using Machine Learning to Predict Urgency of Care
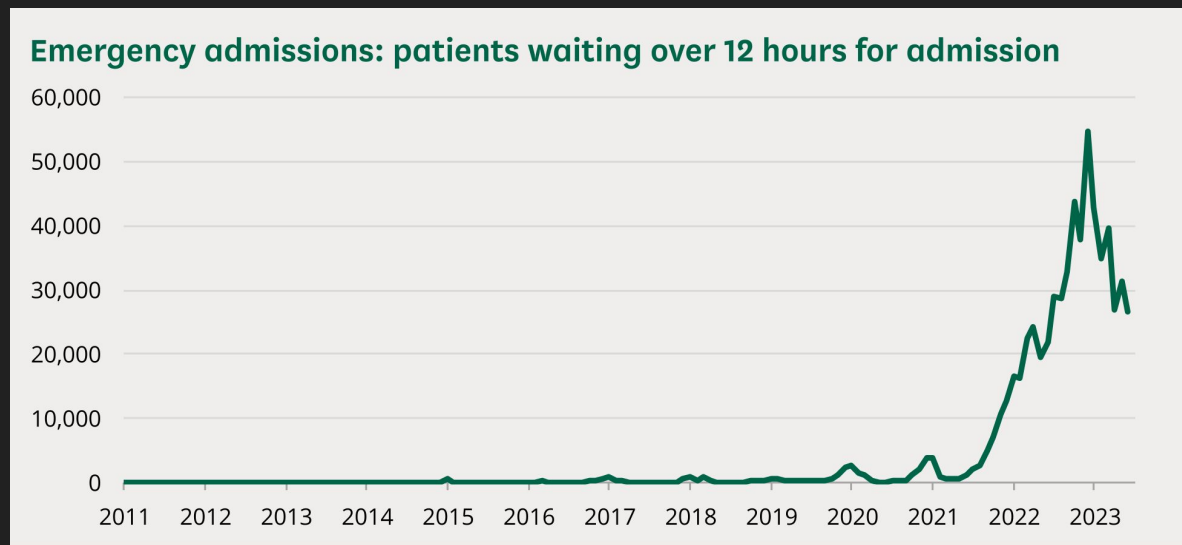
Henry Nurick

Problem Statement
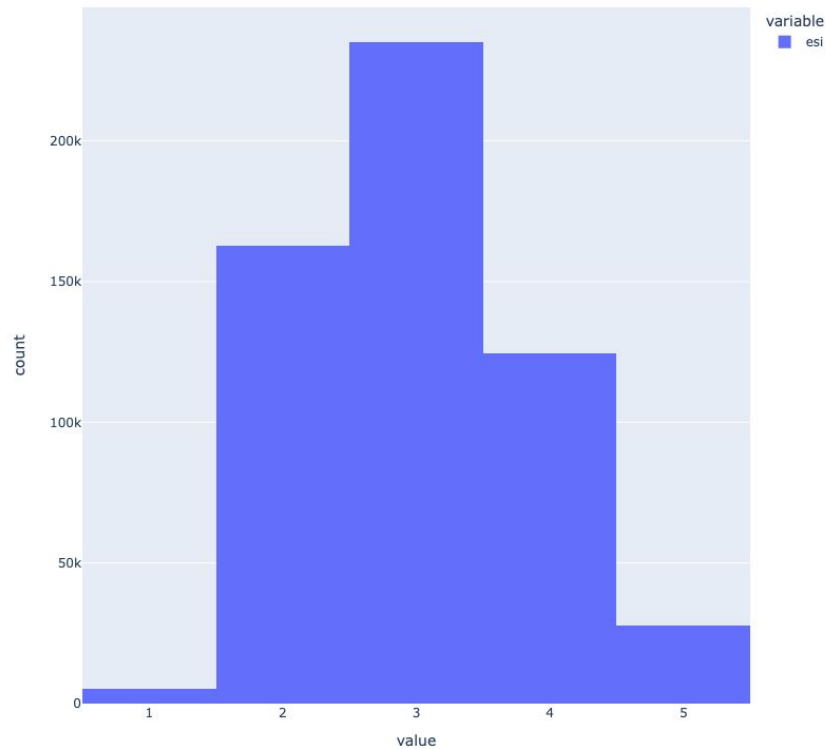
Patients are waiting longer to receive medical care
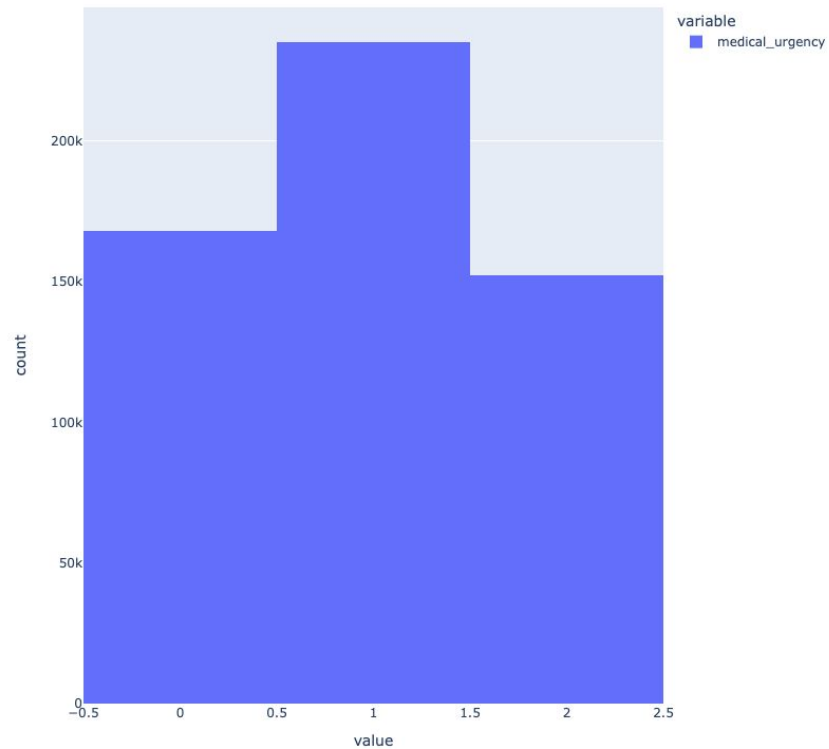

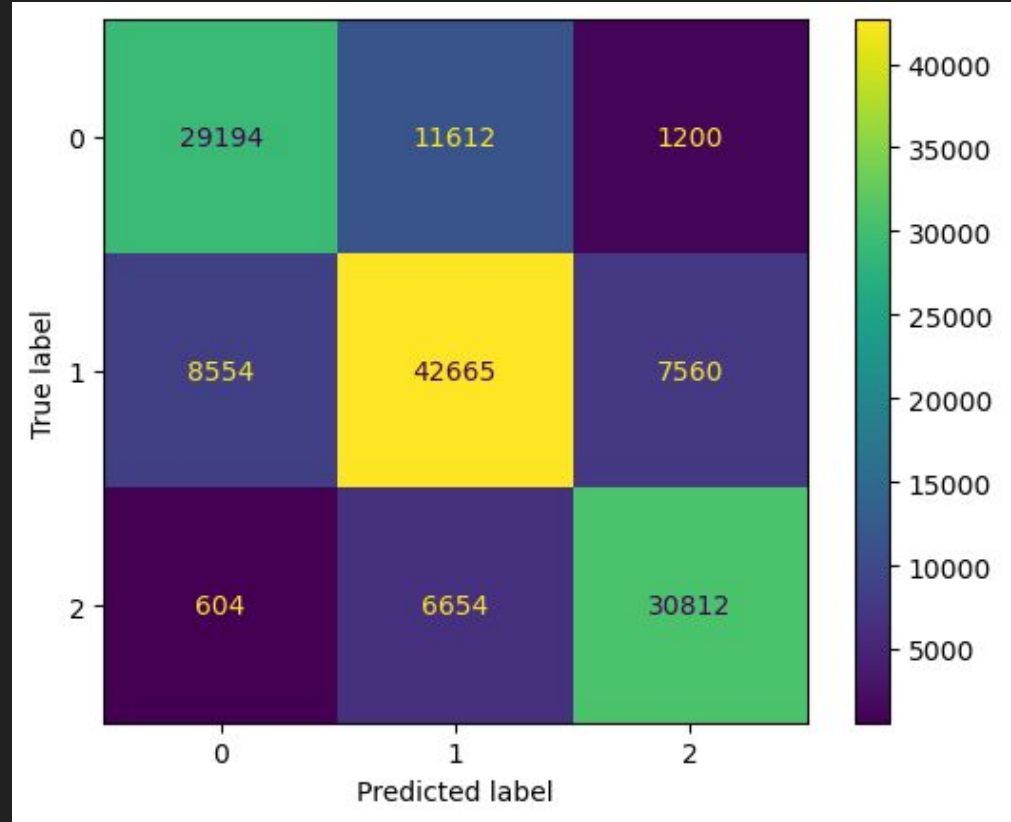**Emergency admissions: patients waiting over 12 hours for admission**

Analysis

Distribution of esi scores

Distribution of medical urgency scores

Modelling

Model accuracy: 74%

Class 0 recall: 69%

Influential factors

Most influential factors in predicting medical urgency
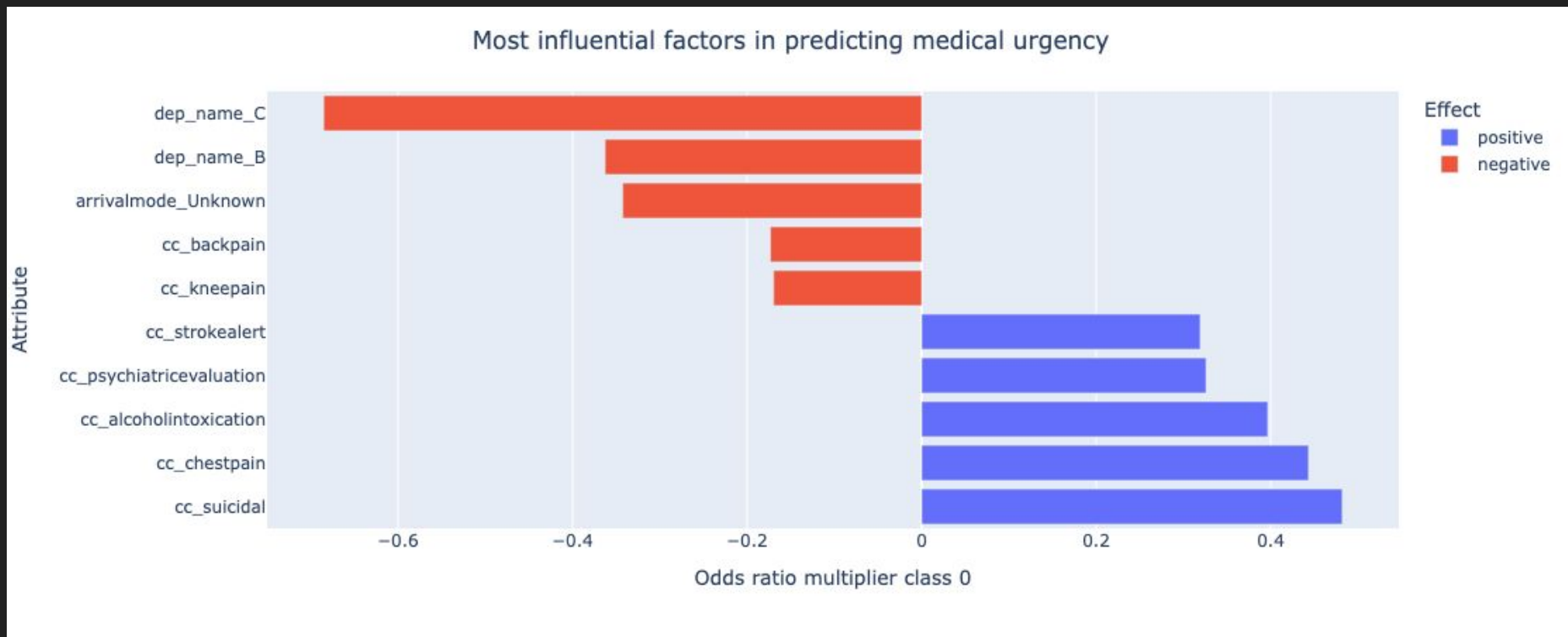
Next steps

- Further EDA
- Nonlinear models
- Deep learning and neural networks
- Different target variables