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### 017

### DATA-DRIVEN TRIAGE: EXPLORING AI MODELS FOR PREDICTING EMERGENCY DEPARTMENT OUTCOMES

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**Introduction:** Machine learning has become a significant trend in the healthcare sector recently, and its capabilities appear promising. This study aims to develop and validate four machine learning models in predicting triage outcomes in emergency departments.

**Methodology:** A retrospective cohort study utilising electronic health records in the emergency department of a teaching hospital, with four machine learning models to be evaluated: Random Forest (RF), Gradient Boosted Decision Tree (GBDT), K-Nearest Neighbors (KNN), and XGBoost.

**Results:** A total of 312 emergency patient records were acquired. The scores for accuracy, precision, recall, and F1-score were 100% for RF, GBDT, and XGBoost. The models are also able to predict a few classes accurately, potentially improving the triage process. Respiratory rate has a high impact on the decision in triaging to actual\_class\_5, which is the red zone (resuscitation), with an R-value of 0.36. Diastolic blood pressure and systolic blood pressure have a high correlation, as evidenced by the R-value, 0.61. Respiratory rate has a negative impact on oxygen saturation and a positive impact on body temperature, with R-values -0.49 and 0.32, respectively.

**Discussion:** On the performance tests of accuracy, precision, recall, and F1-score, the models (RF, GBDT and XGBoost) scored 100% for each of the tests, indicating a perfect classifier. This result indicates the overall ability of the model to improve triage by classifying accurately, as supported by Aljubran et al.'s (2023) statement that machine learning is a promising tool for improving triage decision-making. According to Elhaj, Achour, Tania, & Aciksari, (2023), in these performance tests, the models (KNN and RF) achieved the highest score overall from 9 models trained by the researchers with an accuracy of 89.1% and 88.5%, precision of 89.0% and 88.7%, recall of 89.1% and 88.7%, and F1-score of 89.0% and 88.6%, while the CatBoost model (accuracy = 0.930, recall = 0.915, precision = 0.930, F1-score = 0.930) is clinically excellent to be developed as suggested by Aljubran et al., (2023).

**Conclusion:** Machine learning models can accurately triage patients when properly trained, covering the possible variations of variables presented during triage. A prospective study is needed to evaluate the models' ability further.

**Keywords:** Machine learning; ensemble learning; triage; emergency department